ORDER NO. RD83075367C2

Service Manual

Radio Cassette

RX-F32LS/LE

FM-LW-MW-SW Stereo Radio Cassette Recorder

■ SPECIFICATIONS

General:

Power Requirement:	AC; 110~115/115~127/200~220/230~250V, 50/60Hz
	Battery; 12V (eight "C" Size Flashlight Batteries)
	(National UM-2 or equivalent)
	Car battery; with optional car adaptor RP-952
Power Consumption:	25W (AC only)
Power Output:	20W (10W×2)...RMS (max.)
	20W (10W×2)...MPO
Speaker:	9cm ($3^1/_2$") PM Dynamic Speaker (6Ω)
Input:	MIC; sensitivity 0.25mV/applicable microphone impedance 200~600Ω
	LINE IN; sensitivity 200mV/50kΩ over
	DC IN; 12V
Output:	LINE OUT; sensitivity 420mV/47kΩ
	EXT SP; 3~8Ω
	HEADPHONES; 32Ω
Dimensions:	418mm(W)×220mm(H)×110mm(D) ($16^1/_2\times8^{11}/_{16}\times4^3/_8$)"
Weight:	4.15kg (9 lb. 2.4 oz.) without batteries

Radio Section:

Radio Frequency Range:	FM; 87.5~108MHz
	LW; 150~285kHz (2000~1060m)
	MW; 520~1610kHz (577~186m)
	SW; 5.9~18MHz (50.8~16.7m)
Intermediate Frequency:	FM; 10.7MHz
	AM (LW/MW/SW); 455kHz
	AM (LW/MW/SW); 470kHz (For U.K)
Sensitivity:	FM; 1.8μV/500mW output
	LW; 178μV/m/50mW output
	MW; 141μV/m/50mW output
	SW; 8.9μV/50mW output

Tape Deck Section:

Frequency Response:	60~12,000Hz (with normal tape)
	60~14,000Hz (with Metal tape)
Recording System:	AC bias, AC erase
Tape Speed:	4.8cm/s, ($1^7/_8$ ips)
Wow and Flutter:	0.2% (WRMS)
Program Time:	1 hour with C-60 cassette tape
Track System:	4-track 2 channel stereo recording and playback

Specifications are subject to change without notice.

Panasonic

Matsushita Electric Trading Co., Ltd.
P.O. Box 288, Central Osaka Japan

LOCATION OF CONTROLS AND COMPONENTS

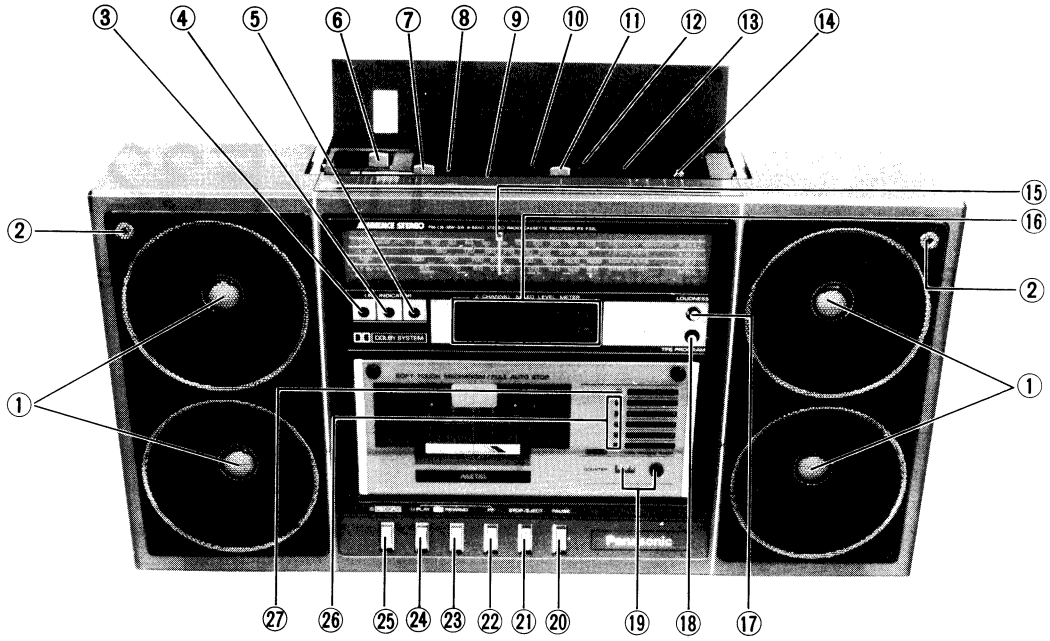


Fig. 1

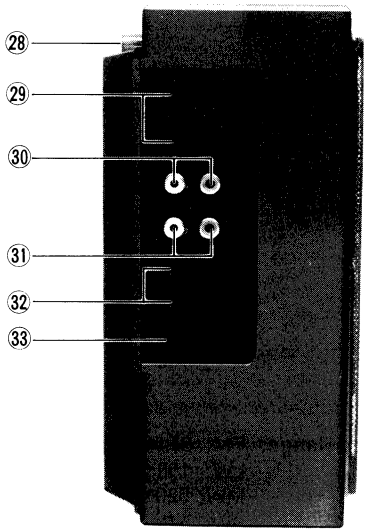


Fig. 2

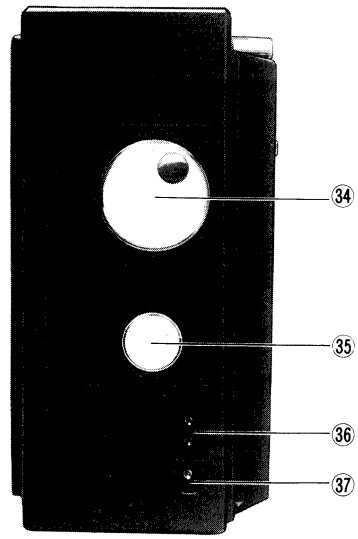


Fig. 3

① PM Dynamic Speakers [9cm ($3^1/_2$") 6Ω]
② Built-in Microphones (MIC)
③ Operation/Battery Indicator (OPR/BATT)
④ FM Stereo Indicator (FM STEREO)
⑤ Dolby NR Indicator (DOLBY NR)
⑥ Function Switch (SELECTOR)
[POWER OFF/TAPE, RADIO, LINE IN]
⑦ Volume Control (VOLUME)
⑧ Tape Switch (TAPE) [NORMAL, METAL]
⑨ Mode/Beat Proof Switch (MODE/BEAT PROOF)
[MONO/I, STEREO/II, AMBIENCE/III]
⑩ Bass Control (BASS)
⑪ Dolby NR Switch (DOLBY NR) [IN, OUT]
⑫ Treble Control (TREBLE)
⑬ Balance Control (BALANCE)
⑭ Band Switch (BAND) [FM, LW, MW, SW]
⑮ Tuning Indicator
⑯ Level Meter (2-CHANNEL 5-LED LEVEL METER)
⑰ Loudness Switch (LOUDNESS) [ON, OFF]
⑱ TPS Program Button (TPS PROGRAM)
⑲ Counter and Reset Button (COUNTER)
⑳ Pause Button (PAUSE)
㉑ Stop/Eject Button (STOP/EJECT)
㉒ Fast Forward Button (FF)
㉓ Rewind Button (REWIND)
㉔ Playback Button (PLAY)
㉕ Record Button (RECORD)
㉖ TPS Indicator (TPS)
㉗ Record Indicator (RECORD)
㉘ Telescopic Antenna
㉙ EXT. MIC Jacks (MIC) φ3.5
[0.25mV, 200~600Ω]
㉚ Line Input Jacks (LINE IN) [200mV/50kΩ over]
㉛ Line Output Jacks (LINE OUT) [420mV/47kΩ]
㉜ EXT. SP Jacks (EXT SP) [3~8Ω] φ3.5
㉝ Headphone Jack (PHONES) [32Ω] φ3.5
㉞ Tuning Control (TUNING)
㉟ Fine Tuning Control (FINE TUNING)
㊱ AC Socket (AC IN~)
㊲ DC Input Jack (DC IN 12V ⊖-◉-⊕)

DOLBY SYSTEM

*"Dolby" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.
*Noise reduction system manufactured under license from Dolby Laboratories Licensing Corporation.

DISASSEMBLY INSTRUCTIONS

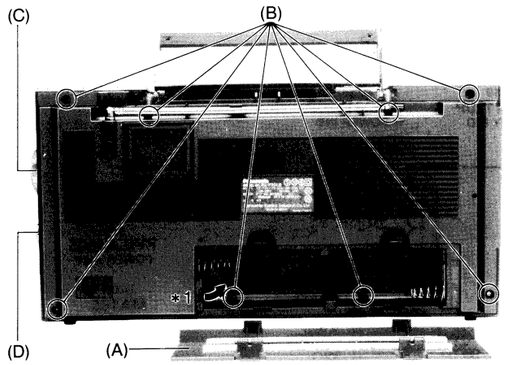


Fig. 4

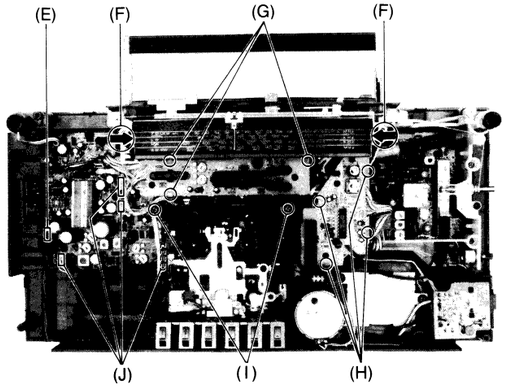


Fig. 5

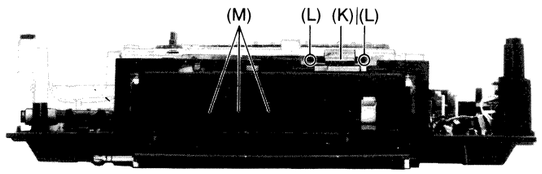


Fig. 6

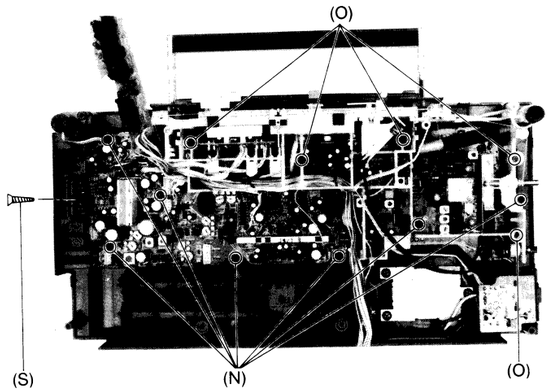


Fig. 7

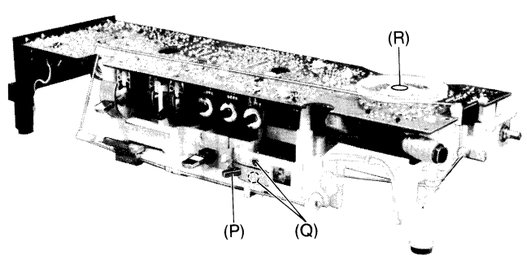


Fig. 8

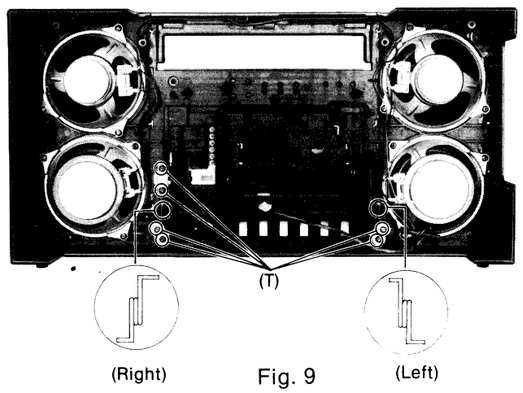


Fig. 9

HOW TO DISASSEMBLY THE HANDLE

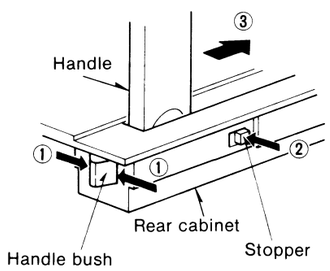


Fig. 10

Remove the handle by sliding it in the direction of the arrow ③ while pushing the handle bush and the stopper in the direction of the arrow ①, ②.

Ref. No.	Procedure	Shown in Fig. —.	To remove —.	Remove —.
1	1~5	4	Front Cabinet	Battery cover ....(A)×1
2		4		Screw (3×50) ....(B)×8
3		4		Knob ....(C)×1
4		4		Knob ....(D)×1
5		5		Socket ....(E)×1
6	1~6	5	Dial Scale	Push the rib in the direction of the arrow and pull up the dial scale ....(F)×2
7	1~5, 7	5	LED Circuit Board	Rib ....(G)×3
8	1~5, 8	5	TPS Circuit Board	Rib ....(H)×4
9	1~5, 9, 10	5	Mechanism	Screw (3×35) ....(I)×2
10		5		Socket ....(J)×4
11	1~6, 11, 12	6	Volume Circuit Board	Knob ....(K)×1
12		6		Screw (2×6) ....(L)×2
13	1~10, 13~15	6	Main Circuit Board	Knob ....(M)×3
14		7		Screw (3×35) ....(N)×7
15		7		Screw (3×10) ....(O)×5
16	1~10, 13~17	8	Band Switch	Knob ....(P)×1
17		8		Screw (3×6) ....(Q)×2
18	1~10, 13~15, 18	8	Dial Chassis	Screw (2.6×8) ....(R)×1
19	1~10, 13~15, 19	7	Jack Board	Screw (3×14) ....(S)×1
20	1~5, 20	9	Cassette Cover (*2)	Screw (3×8) ....(T)×6

*1. When the tape is caught in the pinch roller, etc.
Remove this cap and release the tape by turning the pulley on the motor with the screwdriver in the direction of the arrow as shown in Fig. 4.
*2. There are some differences in their appearance between spring (Right) and spring (Left).

DIAL THREADING

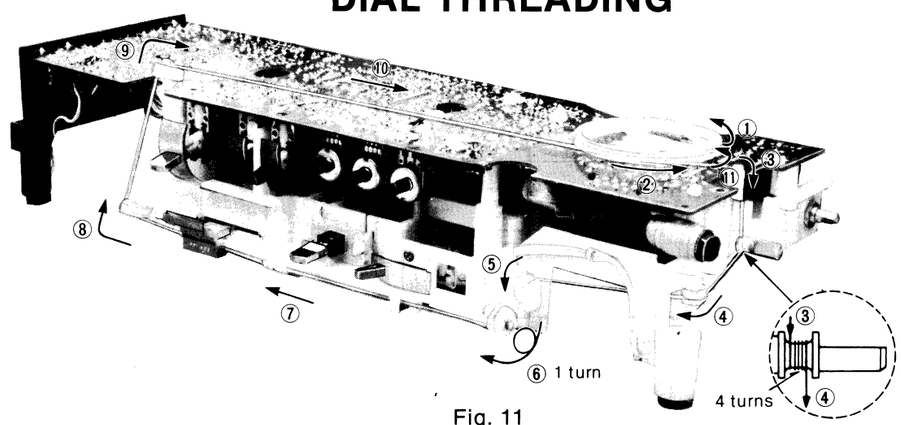


Fig. 11

■ DIAL SETTING POINT

Set the left side of the pointer to the point.

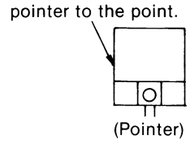


Fig. 12

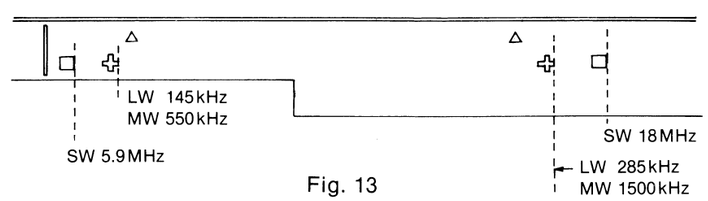
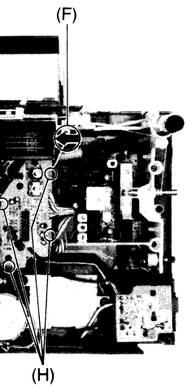
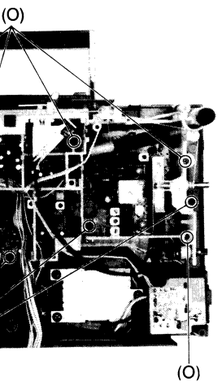
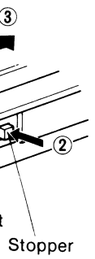


Fig. 13





THE HANDLE



in the direction of
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the arrow ①, ②.

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3		4		Knob ....(C)×1
4		4		Knob ....(D)×1
5		5		Socket ....(E)×1
6	1~6	5	Dial Scale	Push the rib in the direction of the arrow and pull up the dial scale ....(F)×2
7	1~5, 7	5	LED Circuit Board	Rib ....(G)×3
8	1~5, 8	5	TPS Circuit Board	Rib ....(H)×4
9	1~5, 9, 10	5	Mechanism	Screw (3×35) ....(I)×2
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DIAL THREADING

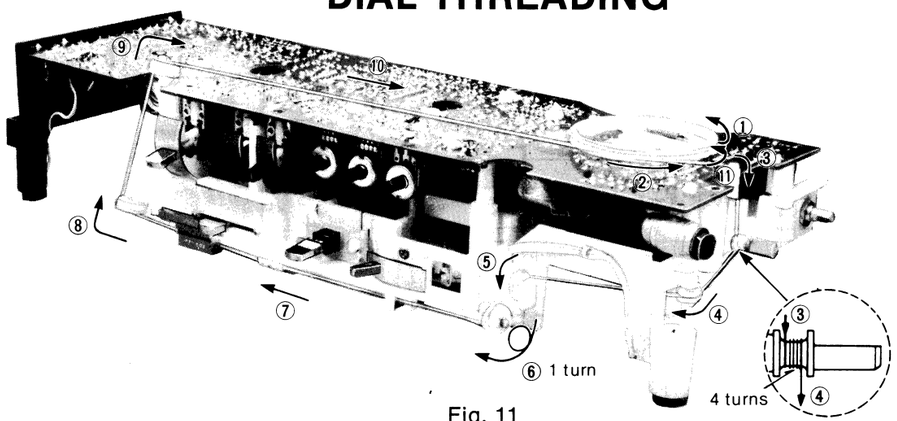


Fig. 11

■ DIAL SETTING POINT

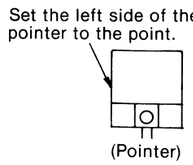


Fig. 12

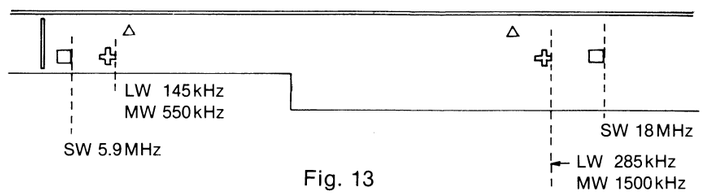
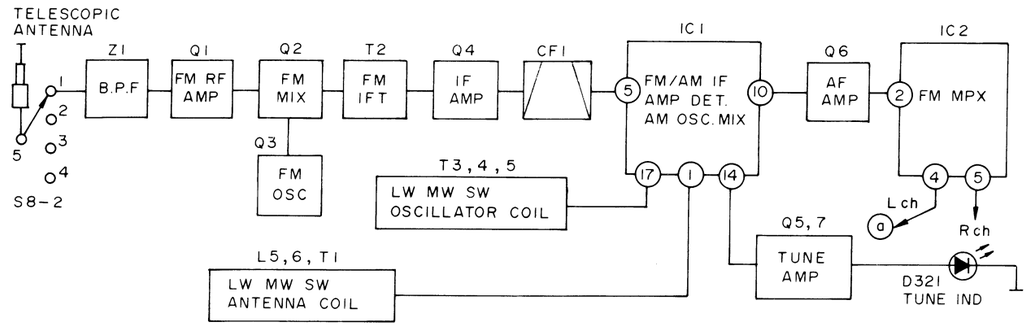


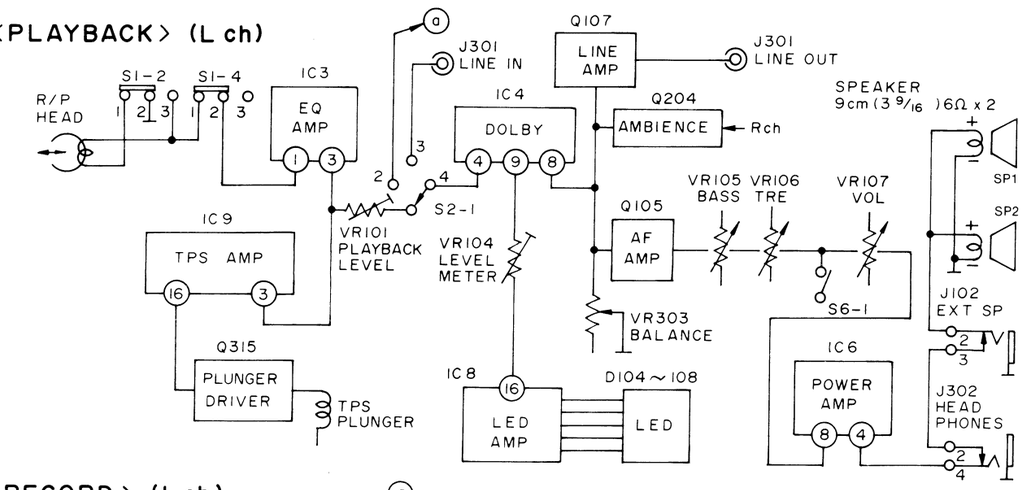
Fig. 13

BLOCK DIAGRAM

<RADIO>



<PLAYBACK> (L ch)



<RECORD> (L ch)

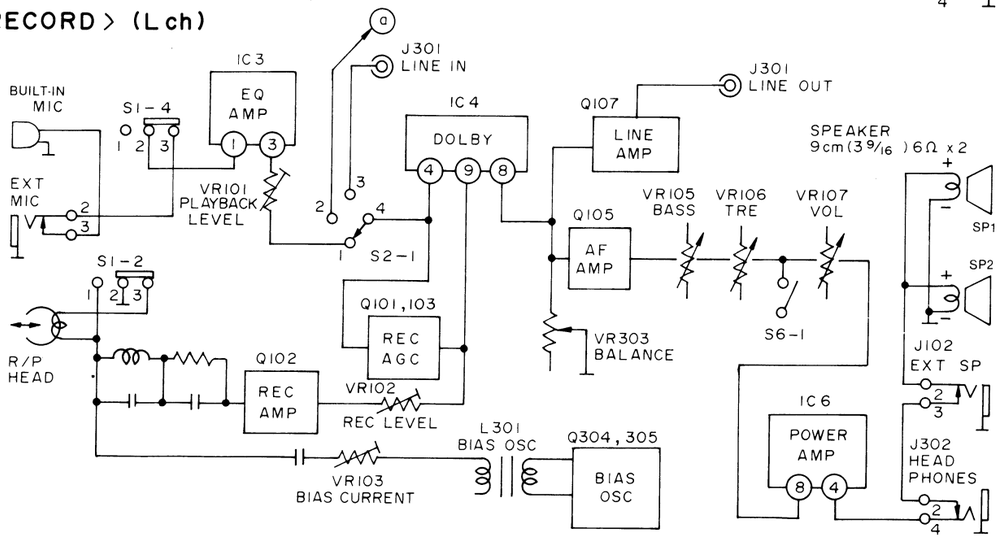
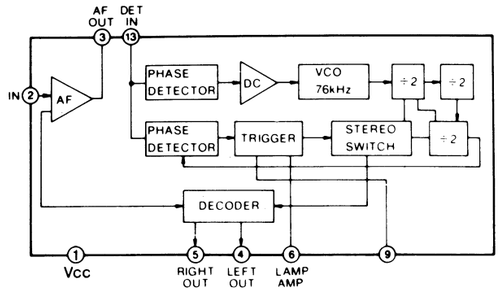


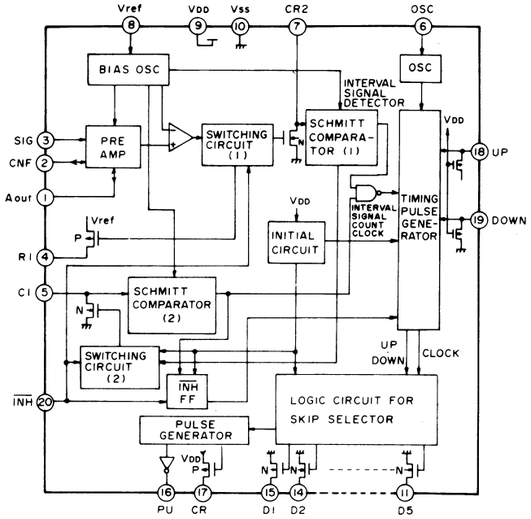
Fig. 14

RX-F32LS/LE RX-F32LS/LE

IC2 RVIBA1330

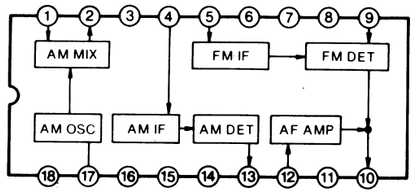


IC9 RVILC7515

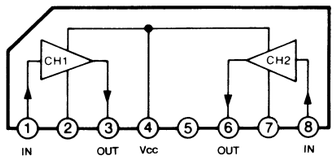


Varicap.	General	Zener	LED	Photo Diode
Anode / Cathode	Anode / Cathode	Anode / Cathode	Anode / Cathode	Cathode / Anode

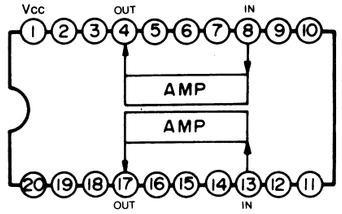
IC1 AN7220B



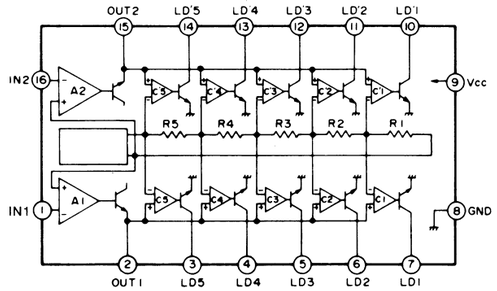
IC3 RVIBA328MR



IC6 RVILA4505



IC8 RVITA7666P

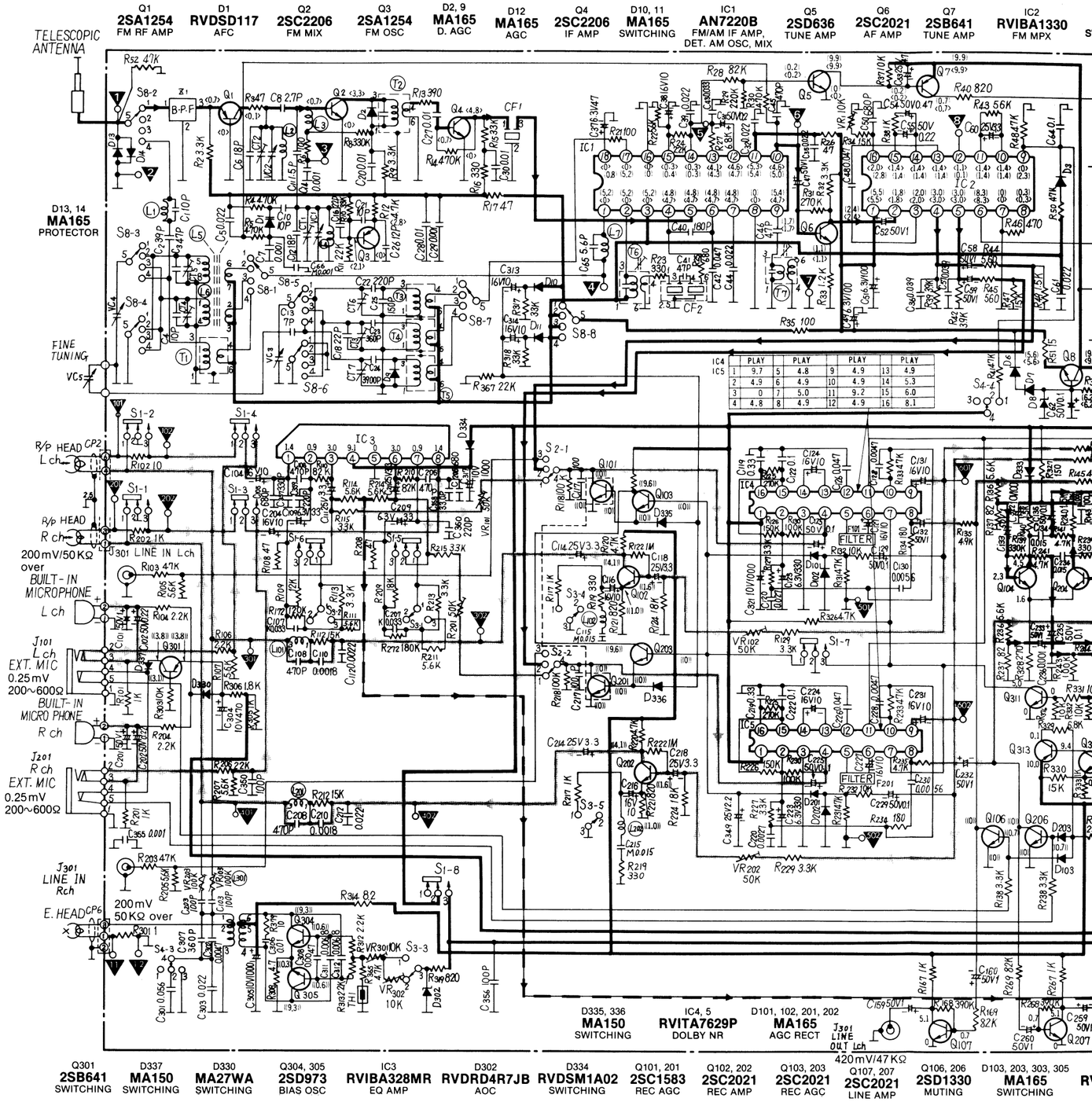


Notes:

1. S1-1~S1-10: Record/playback switch in "playback" position. (1...Playback, 3...Record)
2. S2-1~S2-4: Function switch in "TAPE/OFF" position. (1...TAPE/OFF, 2...RADIO, 3...LINE IN)
3. S3-1~S3-5: Tape switch in "METAL" position. (2...METAL, 3...NORMAL)
4. S4-1~S4-4: Mode/beat proof switch in "STEREO/II" position. (1...MONO/I, 2...STEREO/II, 3...AMBIENCE/III)
5. S5: Dolby NR switch in "OUT" position.
6. S6-1, S6-2: Loudness switch in "OFF" position.
7. S7: TPS program switch.
8. S8-1~S8-8: Band switch in "FM" position. (1...FM, 2...LW, 3...MW, 4...SW)
9. S9: Motor switch in "OFF" position.
10. S10: Play switch in "OFF" position.
11. S11: TPS switch in "OFF" position.
12. S12: AC/DC IN select switch in "DC IN" position.
13. S13: Voltage select switch.
14. VR101, 201: Dolby adjustment VR.
15. VR102, 202: Recording current adjustment VR.
16. VR103, 203: Bias current adjustment VR.
17. VR104, 204: Meter adjustment VR.
18. VR105, 205: Bass control.
19. VR106, 206: Treble control.
20. VR107, 207: Volume control.
21. VR301: Erase current adjustment VR. (NORMAL)
22. VR302: Erase current adjustment VR. (METAL)
23. VR303: Balance control.
24. The mark (▼) shows test point. e.g. ▼ = test point 1.
25. DC voltage measurement are taken with electronics voltmeter from negative terminal of battery.
    < >...FM position, ( )...AM position,
    (( ))...Recording position,
    No mark...Playback position.
26. Battery current: No signal 135mA
    Maximum output (radio) 1.2A
    Maximum output (tape) 1.3A
27. Important safety notice
    Components identified by ⚠ mark have special characteristics important for safety.
    When replacing any of these components, use only manufacturer's specified parts.

SCHEMATIC DIAGRAM MODEL F

+(B) Voltage Line
Tape (PLAY BACK) Signal Line
Radio (FM) Signal Line
Tape (RECORD) Signal Line
Level Meter Signal Line
TPS Signal Line
AMBIENCE Signal Line



SCHEMATIC DIAGRAM MODEL RX-F32LS/LE

+(B) Voltage Line
Tape (PLAY BACK) Signal Line
Radio (FM) Signal Line
Tape (RECORD) Signal Line
Level Meter Signal Line
TPS Signal Line
AMBIENCE Signal Line

Q1 **2SA1254** FM RF AMP
D1 **RVDSD117** AFC
Q2 **2SC2206** FM MIX
Q3 **2SA1254** FM OSC
D2, 9 **MA165** D. AGC
D12 **MA165** AGC
Q4 **2SC2206** IF AMP
D10, 11 **MA165** SWITCHING
IC1 **AN7220B** FM/AM IF AMP, DET. AM OSC, MIX
Q5 **2SD636** TUNE AMP
Q6 **2SC2021** AF AMP
Q7 **2SB641** TUNE AMP
IC2 **RVIBA1330** FM MPX
D3 **MA165** SWITCHING
D6 **MA165** PROTECTOR
D7 **MA161** PROTECTOR
D8 **RVDRD6R2JB2** REGULATOR
Q8 **2SD973** REGULATOR
D321 **SLP102A** TUNE IND
D318 **LN031120P** FM ST IND
IC8 **RVITA7666P** LEVEL METER AMP
D319 **LN031120P** DOLBY IND
D104~108, 204~208 **LN101122P** LEVEL METER
D320 **LN031120P** POWER IND

TELESCOPIC ANTENNA
FINE TUNING
R/P HEAD L ch
R/P HEAD R ch
200mV/50KΩ over BUILT-IN MICROPHONE L ch
J101 L ch EXT. MIC 0.25mV 200~600Ω
BUILT-IN MICRO PHONE R ch
J201 R ch EXT. MIC 0.25mV 200~600Ω
J301 LINE IN Rch
E. HEAD
J301 LINE IN Lch
D13, 14 **MA165** PROTECTOR

IC6 **RVILA4505** POWER AMP
D306 **MA165** PROTECTOR
Q316 **2SD1266** REGULATOR
Q302 **2SC2021** REGULATOR
D311 **RVDRD11JB2** REGULATOR
D329 **MA165** SWITCHING
IC9 **RVILC7515** TPS AMP
D312 **MA165** SWITCHING
D313 **MA1068M** AOC
D323~327 **LN062121P** TPS IND
D314~317 **RVDSM1502** RECT

R ch PM DYNAMIC SPEAKER 9cm (3½") 6Ω×2
J202 EXT. SP (R ch) 3~8Ω
J302 PHONES 32Ω
J102 EXT. SP (L ch) 3~8Ω
L ch PM DYNAMIC SPEAKER 9cm (3½") 6Ω×2

BATTERY (UM2×8) 12V
J303 DC IN
J303 AC IN
FUSE T16A

IC8							
	PLAY		PLAY		PLAY		PLAY
1	1.4	5	10.4	9	9.9	13	10.4
2	1.5	6	10.4	10	10.5	14	10.4
3	10.4	7	10.6	11	10.5	15	1.5
4	10.4	8	0	12	10.4	16	1.4

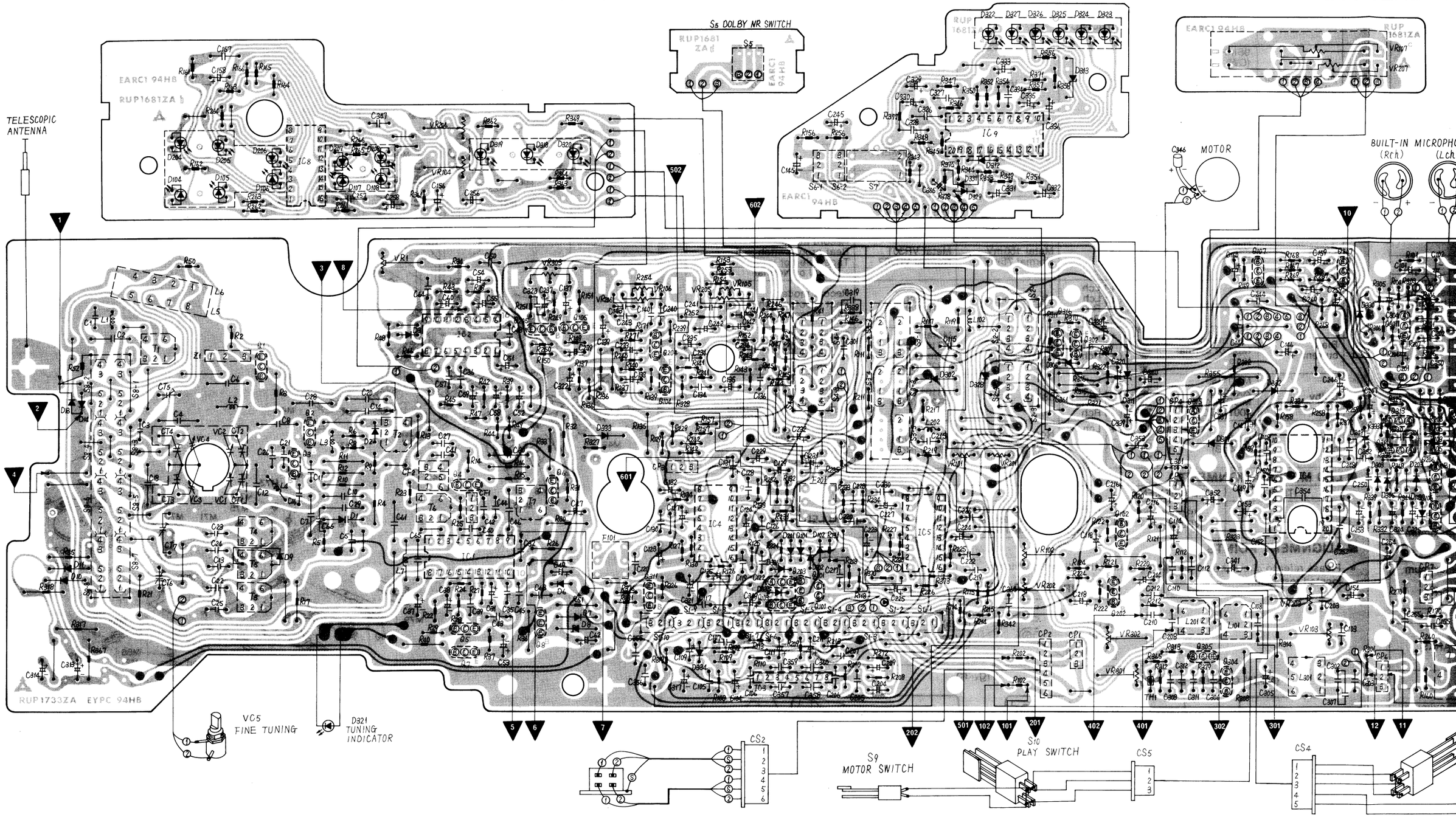
IC4 IC5	PLAY		PLAY		PLAY		PLAY
1	9.7	5	4.8	9	4.9	13	4.9
2	4.9	6	4.9	10	4.9	14	5.3
3	0	7	5.0	11	9.2	15	6.0
4	4.8	8	4.9	12	4.9	16	8.1

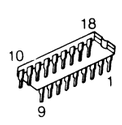
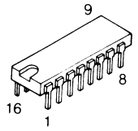
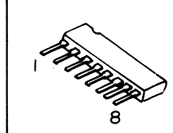
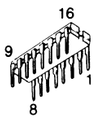
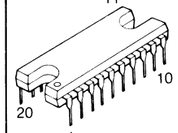
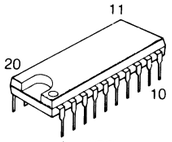
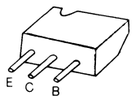
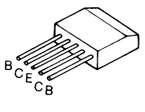
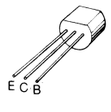
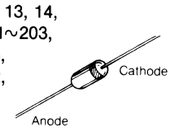
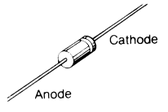
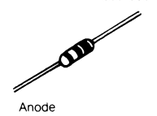
	PLAY		PLAY
1	2.3	11	0.6
2	2.3	12	0.6
3	2.2	13	0.6
4	0	14	1.1
5	0	15	0.1
6	0	16	0
7	0	17	8.8
8	6.8	18	0
9	8.8	19	0
10	0	20	0

Q301 **2SB641** SWITCHING
D337 **MA150** SWITCHING
D330 **MA27WA** SWITCHING
Q304, 305 **2SD973** BIAS OSC
IC3 **RVIBA328MR** EQ AMP
D302 **RVDRD4R7JB** AOC
D334 **RVDSM1A02** SWITCHING
Q101, 201 **2SC1583** REC AGC
Q102, 202 **2SC2021** REC AMP
Q103, 203 **2SC2021** REC AGC
Q107, 207 **2SC2021** LINE AMP
Q106, 206 **2SD1330** MUTING
D103, 203, 303, 305 **MA165** SWITCHING
D333 **RVDSM1A02** SWITCHING
Q104, 204 **2SC2021** AMBIENCE AMP
Q313 **2SB641** SWITCHING
Q311, 314 **2SD636** SWITCHING
Q105, 205 **2SC2021** AF AMP
Q315 **2SB643** PLUNGER DRIVER
D309 **RVDSM1A02** PROTECTOR
D322 **LN062121P** REC IND
D331 **RVDRD5R1JB2** SWITCHING
D328, 332 **MA150** SWITCHING
D335, 336 **MA150** SWITCHING
IC4, 5 **RVITA7629P** DOLBY NR
D101, 102, 201, 202 **MA165** AGC RECT

J301 LINE OUT Lch 420mV/47KΩ
J301 LINE OUT Rch 420mV/47KΩ
TPS PLUNGER

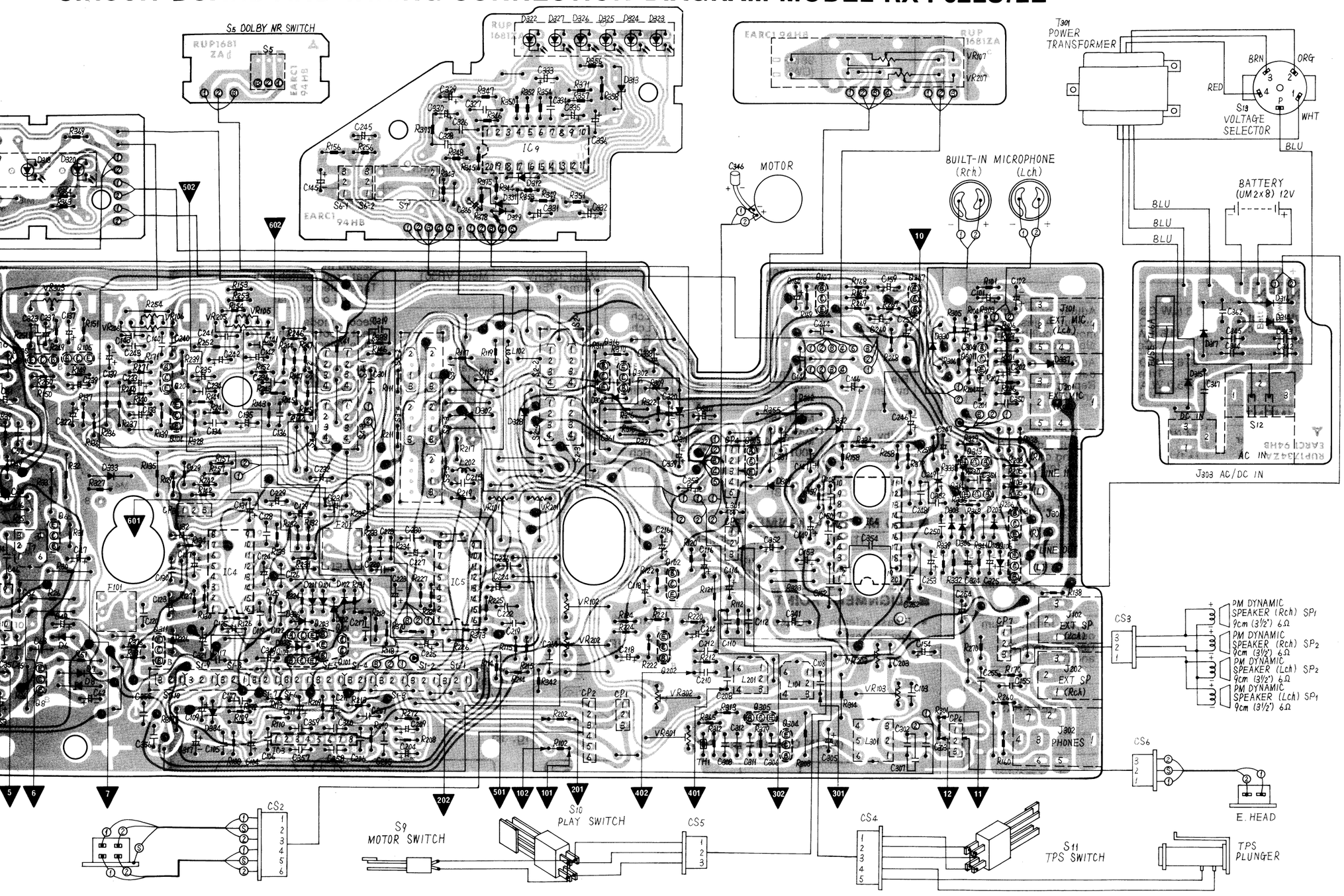
CIRCUIT BOARD AND WIRING CONNECTION DIAGRAM MODEL RX-F32LS/LE

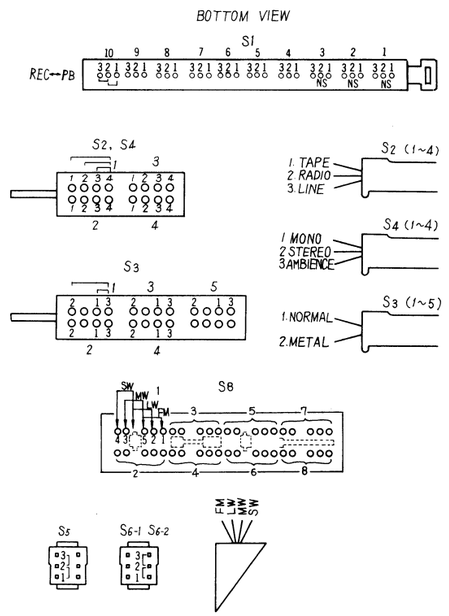


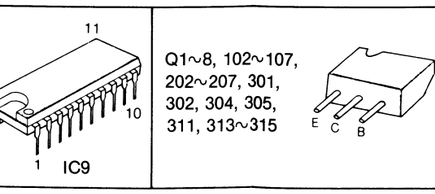
 IC1	 IC2	 IC3	 IC4, 5, 8	 IC6	 IC9	Q1~8, 102~107, 202~207, 301, 302, 304, 305, 311, 313~315 	 Q101, 201	 Q316	D1~3, 6~11, 13, 14, 101~103, 201~203, 302, 303, 305, 306, 312, 322, 328~330, 334~337 	 D309, 314~317, 333	 D311, 313

RX-F32LS/LE

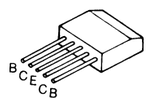
CIRCUIT BOARD AND WIRING CONNECTION DIAGRAM MODEL RX-F32LS/LE



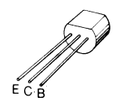




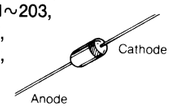
Q1~8, 102~107, 202~207, 301, 302, 304, 305, 311, 313~315



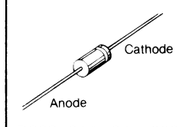
Q101, 201



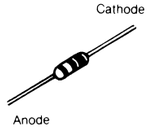
Q316



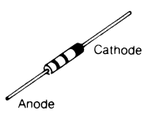
D1~3, 6~11, 13, 14, 101~103, 201~203, 302, 303, 305, 306, 312, 322, 328~330, 334~337



D309, 314~317, 333

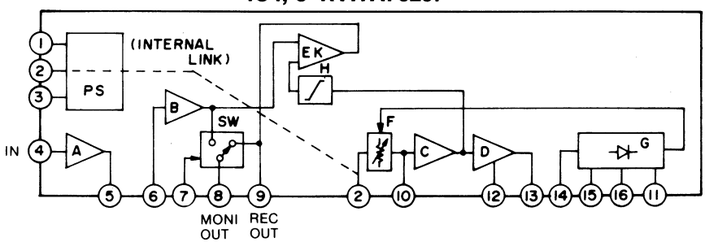


D311, 313



D331

IC4, 5 RVITA7629P



MEASUREMENTS AND ADJUSTMENTS

■ ALIGNMENT INSTRUCTION

READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

1. Set volume control to maximum.
2. Set bass and treble control to center.
3. Set band switch to LW, MW, SW or FM.
4. Set balance control to center.
5. Set dolby NR switch in "OFF".
6. Set Loudness switch in "OFF".
7. Set function switch to radio.
8. Set fine tuning to center.
9. Set power source voltage to 12V DC.
10. Output of signal generator should be no higher than necessary to obtain an output reading.

■ LW, MW and SW ALIGNMENT

	BAND	SIGNAL GENERATOR or SWEEP GENERATOR CONNECTIONS	SIGNAL GENERATOR or SWEEP GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR (ELECTRONICS VOLTMETER or SCOPE)	ADJUSTMENT	REMARKS
			AM-IF ALIGNMENT				
(1)	MW	Fashion loop of several turns of wire and radiate signal into loop of receiver.	455kHz 470kHz (For U.K) 30% Mod. at 400Hz	Point of non-interference. (on/ about 600kHz)	Output meter across voice coil.	T6 (AM IFT)	Adjust for maximum output.
			LW-RF ALIGNMENT				
(2)	LW	〃	145kHz	145kHz (Refer to Fig. 13.)	Output meter across voice coil.	T3 (LW OSC Coil) (*1) L5 (LW ANT Coil)	Adjust for maximum output. Adjust L5 by moving coil bobbin along ferrite core.
(3)	LW	〃	285kHz	285kHz (Refer to Fig. 13.)	〃	CT6 (LW OSC Trimmer) CT5 (LW ANT Trimmer)	Adjust for maximum output. Repeat steps (2) and (3).
			MW-RF ALIGNMENT				
(4)	MW	〃	550kHz	550kHz (Refer to Fig. 13)	Output meter across voice coil.	T4 (MW OSC Coil) (*1) L6 (MW ANT Coil)	Adjust for maximum output. Adjust L6 by moving coil bobbin along ferrite core.
(5)	MW	〃	1,500kHz	1,500kHz (Refer to Fig. 13.)	〃	CT3 (MW OSC Trimmer) CT4 (MW ANT Trimmer)	Adjust for maximum output. Repeat steps (4) and (5).
	(*1) Cement antenna bobbin with wax after completing alignment.						
			SW-RF ALIGNMENT				
(6)	SW	Connect to test point ▼1 through ceramic capacitor (10pF). Negative side to test point ▼2.	5.9MHz	5.9MHz (Refer to Fig. 13.)	Output meter across voice coil.	T5 (SW OSC Coil) T1 (SW ANT Coil)	Adjust for maximum output.
(7)	SW		18MHz	18MHz (Refer to Fig. 13.)	〃	CT7 (SW OSC Trimmer)	Adjust for maximum output. Repeat steps (6) and (7).

■ FM ALIGNMENT

	BAND	SIGNAL GENERATOR or SWEEP GENERATOR CONNECTIONS	SIGNAL GENERATOR or SWEEP GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR (ELECTRONICS VOLTMETER or SCOPE)	ADJUSTMENT	REMARKS
			FM-IF ALIGNMENT				
(1)	FM	High side thru. 0.001μF to test point ▼3. Negative side to test point ▼2.	10.7MHz (SWP.)	Point of non-interference. (on/ about 90MHz)	Connect vert. amp. of scope to test point ▼6. Negative side to test point ▼7.	T7 (FM 1st IFT)	Adjust for maximum amplitude. (Refer to fig. 17.)
(2)	FM	〃	〃	〃	〃	T2 (FM 2nd IFT)	Adjust for maximum amplitude. (Refer to fig. 18.)
			FM-RF ALIGNMENT				
(3)	FM	Connect to test point ▼1 through FM dummy antenna. Negative side to test point ▼2.	87.5MHz	Variable capacitor fully closed.	Output meter across voice coil.	L4 (FM OSC Coil)	(*2) Adjust for maximum output.
(4)	FM		108MHz	Variable capacitor fully open.	〃	CT1 (FM OSC Trimmer)	〃
(5)	FM		90MHz	Tune to signal.	〃	L2 (FM ANT Coil)	〃
(6)	FM		106MHz	〃	〃	CT2 (FM ANT Trimmer)	(*2) Adjust for maximum output. Repeat steps (3)~(6).
	(*2) Three output responses will be present; proper tuning is the center frequency.						

■ SEPARATION ALIGNMENT

ITEM	FM SIGNAL GENERATOR SOURCE CONNECTION	EQUIPMENT CONNECTION ELECTRONIC COUNTER	ADJUSTMENT	SPECIFICATION	REMARKS
Adjustment of pilot signal.	98MHz, 60dB (CW) Connect to test point ▼1 through FM dummy antenna. Negative side to test point ▼2.	▼3 ...(+) ▼7 ...(−)	VR1	19kHz	Adjust VR1, for 19kHz (±100Hz) reading on electronics counter.

■ AUDIO ADJUSTMENT

ITEM	INPUT	MEASUREMENT POINT	SPECIFICATION	ADJUSTMENT POINT	REMARKS
Azimuth	QZZCFM (8kHz, −20dB)	EXT SP	Maximum output.	Azimuth screw	Playback mode
Bias oscillation frequency	——	▼11 ...(+) ▼12 ...(−)	62kHz	L301	Record mode Beat proof switch → II Tape selector → Metal
Erase current	Use metal tape or normal tape	▼11 ...(+) ▼12 ...(−)	Metal 150mV Normal 75mV	Metal VR301 Normal VR302	Record mode Beat proof switch → II Tape selector → Metal or Normal
Bias trap	——	▼101 ...(+) Lch ▼102 ...(−) Lch ▼201 ...(+) Rch ▼202 ...(−) Rch	Maximum output.	L101 (Lch) L201 (Rch)	Record mode Beat proof switch → II Tape selector → Metal
Bias current	Use metal tape or normal tape	▼101 ...(+) Lch ▼102 ...(−) Lch ▼201 ...(+) Rch ▼202 ...(−) Rch	Metal 9.5mV Normal 5.0±0.5mV	Metal VR103 (Lch) Normal VR203 (Rch)	Record mode Beat proof switch → II Tape selector → Metal or Normal
Dolby	MMT-150 200nWb/m MODULATED 400Hz TONE	▼101 ...(+) Lch ▼102 ...(−) Lch ▼201 ...(+) Rch ▼202 ...(−) Rch	580mV	VR101 (Lch) VR201 (Rch)	Playback mode Beat proof switch → II Tape selector → Normal
Head current	LINE IN (−14dB)	▼101 ...(+) Lch ▼102 ...(−) Lch ▼201 ...(+) Rch ▼202 ...(−) Rch	Normal 0.35mV Metal 0.58±0.05mV	VR102 (Lch) VR202 (Rch)	Playback mode Beat proof switch → II Tape selector → Normal or Metal

■ LED METER ALIGNMENTS

ITEM	ADJUSTMENT	REMARKS
Level check	VR104 (Rch) VR204 (Lch)	1. Playback the test tape (QZZCLA). 2. Adjust VR104 (Rch) & VR204 (Lch) so that the third LED from the left begins to illuminate.

■ ALIGNMENT POINTS

* Please refer to circuit board and wiring connection diagram which is located test point.

(LED CIRCUIT BOARD)

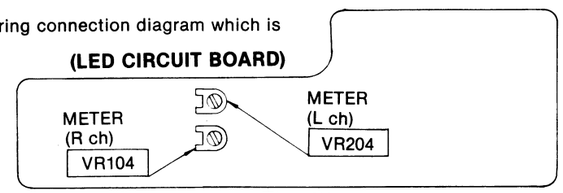


Fig. 15

Fig. 17

(MAIN CIRCUIT BOARD)

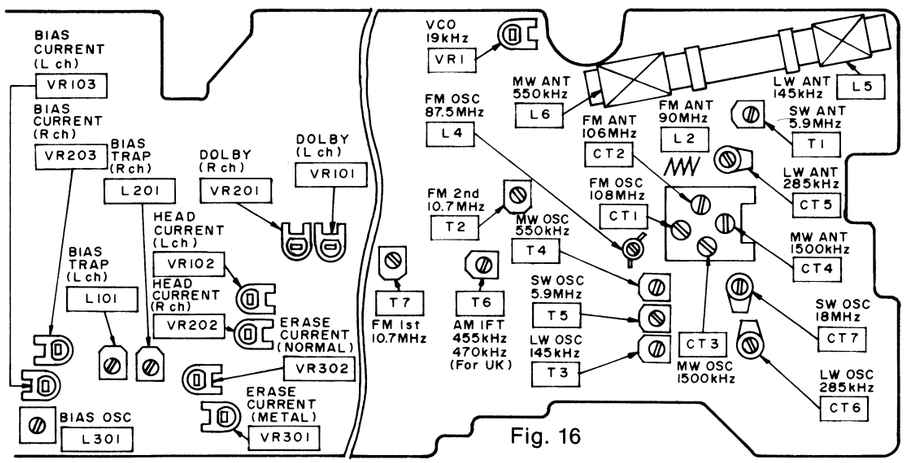


Fig. 16

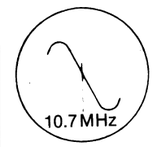
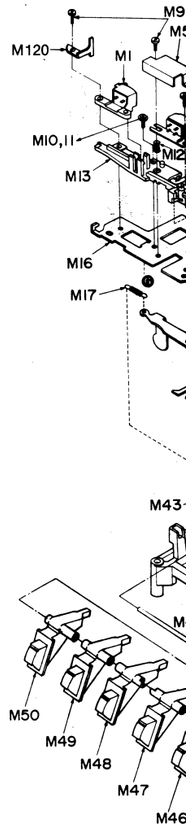


Fig. 18



■ SEPARATION ALIGNMENT

ITEM	FM SIGNAL GENERATOR SOURCE CONNECTION	EQUIPMENT CONNECTION ELECTRONIC COUNTER	ADJUSTMENT	SPECIFICATION	REMARKS
Adjustment of pilot signal.	98MHz, 60dB (CW) Connect to test point ▼1 through FM dummy antenna. Negative side to test point ▼2.	▼8 ...(+) ▼7 ...(−)	VR1	19kHz	Adjust VR1, for 19kHz (±100Hz) reading on electronics counter.

■ AUDIO ADJUSTMENT

ITEM	INPUT	MEASUREMENT POINT	SPECIFICATION	ADJUSTMENT POINT	REMARKS
Azimuth	QZZCFM (8kHz, −20dB)	EXT SP	Maximum output.	Azimuth screw	Playback mode
Bias oscillation frequency	——	▼11 ...(+) ▼12 ...(−)	62kHz	L301	Record mode Beat proof switch → II Tape selector → Metal
Erase current	Use metal tape or normal tape	▼11 ...(+) ▼12 ...(−)	Metal 150mV Normal 75mV	Metal VR301 Normal VR302	Record mode Beat proof switch → II Tape selector → Metal or Normal
Bias trap	——	▼101 ...(+) Lch ▼102 ...(−) Lch ▼201 ...(+) Rch ▼202 ...(−) Rch	Maximum output.	L101 (Lch) L201 (Rch)	Record mode Beat proof switch → II Tape selector → Metal
Bias current	Use metal tape or normal tape	▼101 ...(+) Lch ▼102 ...(−) Lch ▼201 ...(+) Rch ▼202 ...(−) Rch	Metal 9.5mV Normal 5.0±0.5mV	Metal VR103 (Lch) Normal VR203 (Rch)	Record mode Beat proof switch → II Tape selector → Metal or Normal
Dolby	MMT-150 200nWb/m MODULATED 400Hz TONE	▼101 ...(+) Lch ▼102 ...(−) Lch ▼201 ...(+) Rch ▼202 ...(−) Rch	580mV	VR101 (Lch) VR201 (Rch)	Playback mode Beat proof switch → II Tape selector → Normal
Head current	LINE IN (−14dB)	▼101 ...(+) Lch ▼102 ...(−) Lch ▼201 ...(+) Rch ▼202 ...(−) Rch	Normal 0.35mV Metal 0.58±0.05mV	VR102 (Lch) VR202 (Rch)	Playback mode Beat proof switch → II Tape selector → Normal or Metal

■ LED METER ALIGNMENTS

ITEM	ADJUSTMENT	REMARKS
Level check	VR104 (Rch) VR204 (Lch)	1. Playback the test tape (QZZCLA). 2. Adjust VR104 (Rch) & VR204 (Lch) so that the third LED from the left begins to illuminate.

■ ALIGNMENT POINTS

* Please refer to circuit board and wiring connection diagram which is located test point.

(LED CIRCUIT BOARD)

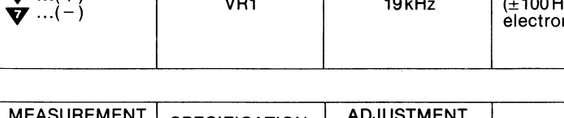


Fig. 15

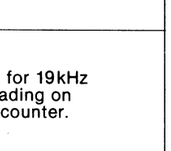


Fig. 17

(MAIN CIRCUIT BOARD)

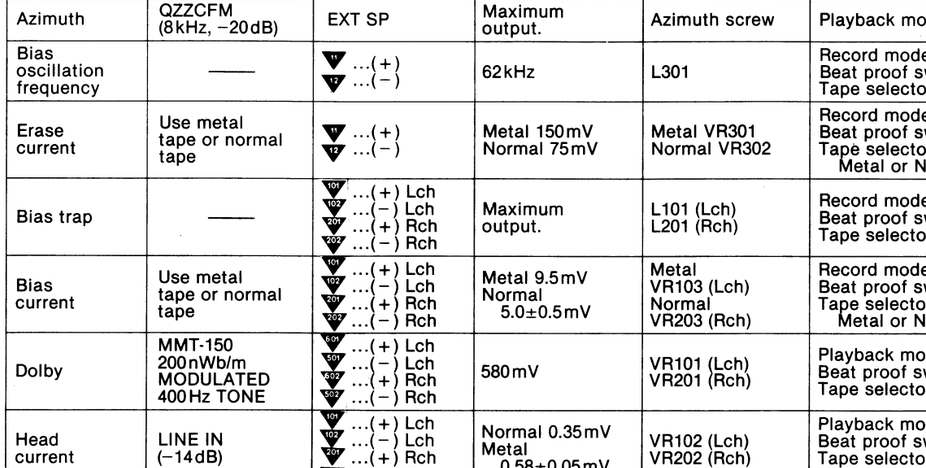


Fig. 16

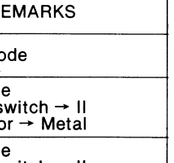


Fig. 18

MECHANISM PARTS LOCATION

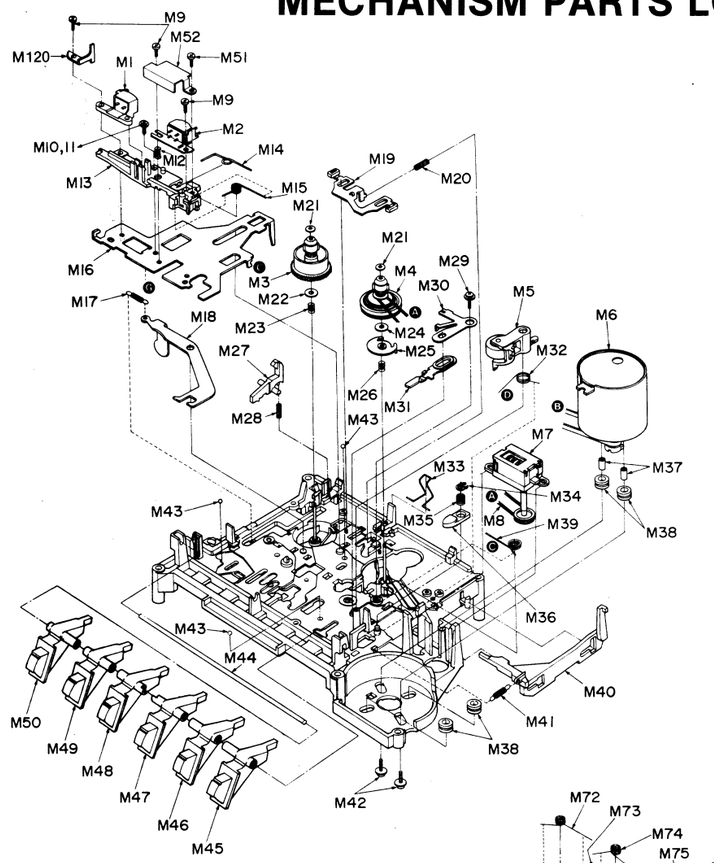


Fig. 19

Specifications

Playback torque	50±15g-cm
Fast Forward torque	80±20g-cm
Rewind torque	80±20g-cm
Pressure of pressure roller	170^{+40}_{-30}g
Wow and flutter	Less than 0.2% (WRMS)

Mechanism Operation: Full Auto Stop.

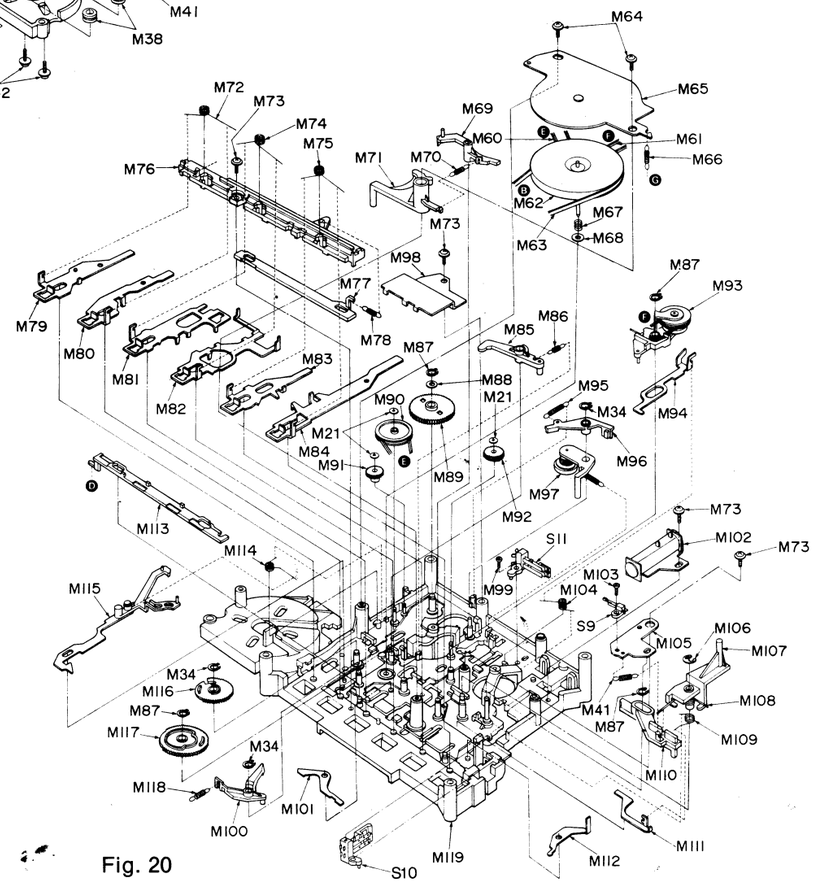


Fig. 20

ELECTRICAL PARTS LOCATION

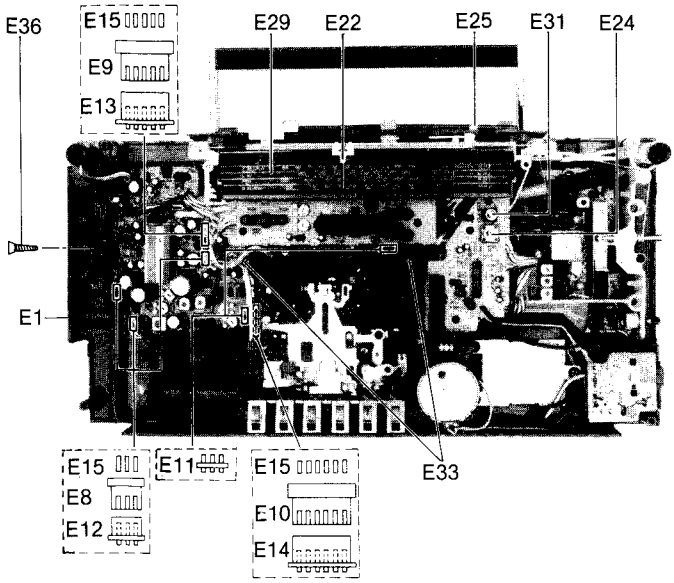


Fig. 21

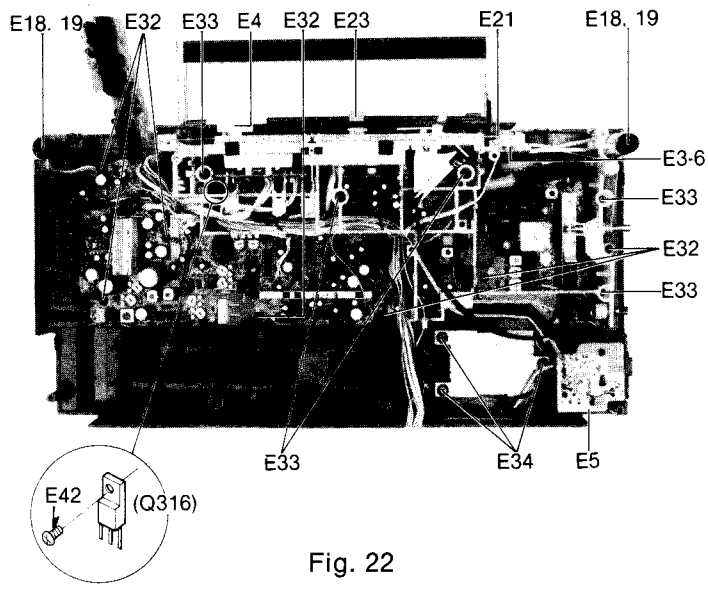


Fig. 22

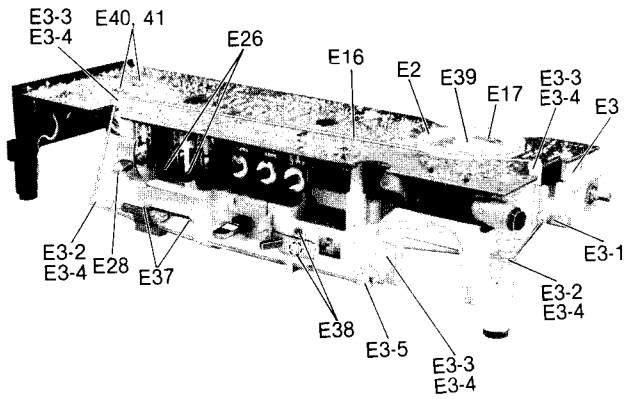


Fig. 23

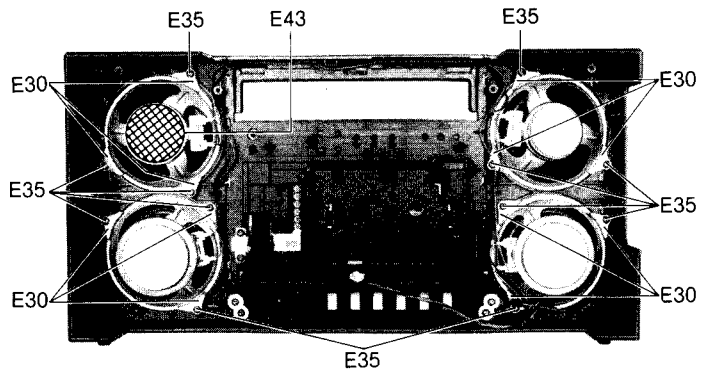


Fig. 24

CABINET PARTS LOCATION

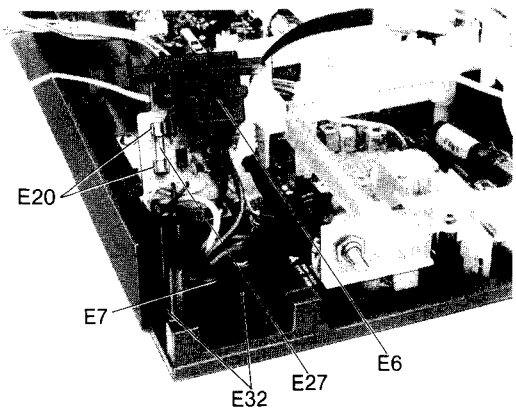


Fig. 25

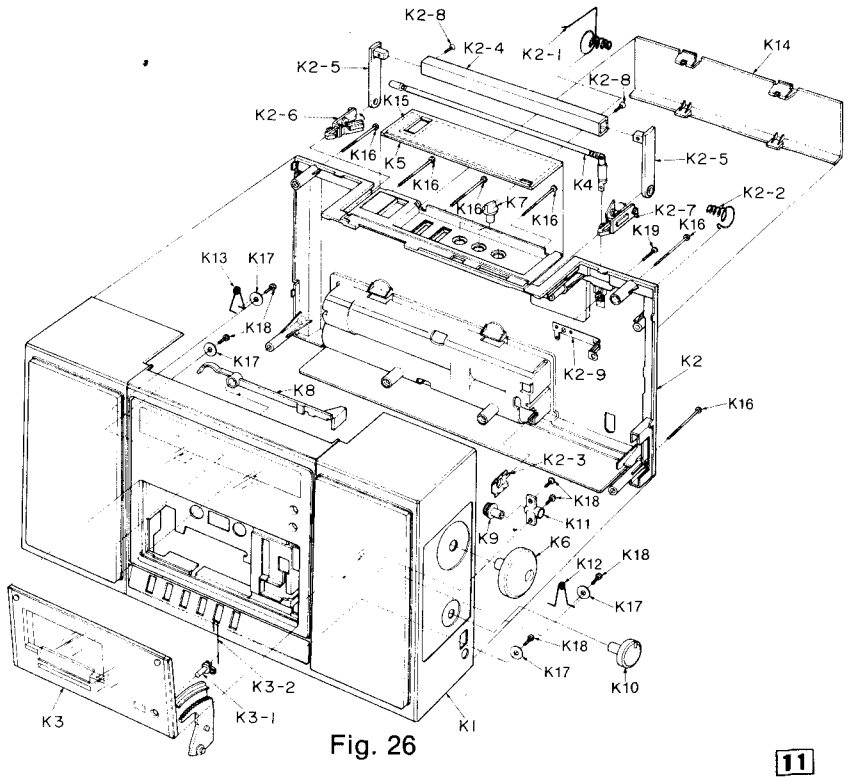


Fig. 26

■REPLACEMENT PARTS LIST RX-F32LS/LE

(RD83075367C2)

Notes:

1. Important safety notice.
   Components identified by ⚠ mark have special characteristics important for safety.
   When replacing any of these components, use only manufacturer's specified parts.
2. The S mark indicates service standard parts and may differ from production parts.
3. RESISTORS & CAPACITORS
   Unless otherwise specified.
   All resistors are in OHMS (Ω) K=1000Ω, M=1000kΩ
   All capacitors are in MICRO FARADS (μF) P=μμF

* Type & Wattage of Resister

Type

ERC:Solid	ERX:Metal Film	ERW:Wirewound Resister
ERD:Carbon	ERG:Metal Oxide	ERS:Fusible Resister
RRD:Chip	ERO:Metal Film	ERF:Cement Resister

Wattage

10,16:1/8W	14,25:1/4W	12:1/2W	1:1W	2:2W	3:3W	

* Type & Voltage of Capacitor

Type

ECFW:Semi-conductor	ECCD,ECKD,ECBT:Ceramic
ECQS:Styrol	ECQM,ECQV,ECQG:Polyester
ECUX:Chip	ECEA,ECSZ :Electrolytic
ECMS:Mica	ECQP :Polypropylene

Voltage

ECQ Type	ECQG, ECQV, Type	ECSZ Type	Others		
1H: 50V	0,5: 50V	0F:3.15V	0J :6.3V	1H,1V,50: 50V	
2A:100V	1:100V	1A:10V	1A :10V	1J : 63V	
2E:500V	2:200V	1V:35V	1C :16V	2A :100V	
2H:500V		0J:6.3V	1E,25:25V		

Ref. No.	Part No.	Part Name & Description	Per Set
		MECHANISM PARTS	
M1	QWY2154	Head, Erase	1
M2	QWY4147Z	Head, Record/Playback	1
M3	QXD0152	Take Up Reel Table Ass'y	1
M4	QXD0153	Back Tension Table Ass'y	1
M5	QXL1636	Pinch Roller Ass'y	1
M6	QXU0329	Motor Ass'y With Pulley	1
M7	QDC0159	Counter	1
M8	QDB0343	Belt, Counter	1
M9	XSB2D6	Screw, R/P Head Adjust, E. Head M'tg	3
M10	XSN2+C4	Screw, Head Spacer M'tg	1
M11	XWG2	Washer, Head Spacer M'tg	1
M12	QBC1322	Spring, Head Adjust	1
M13	QMZ1300	Head Base	1
M14	QBN1962	Spring, Head Board Operation	1
M15	QBN1966	Spring, Pinch Roller	1
M16	QMK2028	Head, Board	1
M17	QBT2004	Spring, TPS Lock Lever	1
M18	QML4008	TPS Lock Lever	1
M19	QXT0005	Brake Board Ass'y	1
M20	QBC1440	Spring, Brake Board	1
M21	QBW2008	Snap Washer, Reel Table etc.	5
M22	QBW0042	Washer, Take Up Reel Table	1
M23	QBC1453	Spring, Back Tension	1
M24	QWQK0003	Washer, Back Tension Table	1
M25	QDP1957	Full Auto Stop Detector Pulley	1
M26	QBC1439	Spring, Full Auto Stop Detector Pulley	1
M27	QML3997	Lever, Erase Safety	1
M28	QBC1437	Spring, Erase Safety Lever	1
M29	XTW26+6SZ	Screw, Head Base Pressure Plate Spring M'tg	1
M30	QBP1985	Plate Spring, Head Base Pressure	1
M31	QML3995	Lever, Stop/Eject Change	1
M32	QBN1971	Spring, Change Rod	1
M33	QBN1711	Spring, Cassette Holder	1
M34	XUEV25V	Circlip	4
M35	QBC1436	Spring, Pause Lock Board	1
M36	QML4009	Pause Lock Board	1
M37	QMC0079	Pipe, Motor Cushion	2
M38	QBG1420	Cushion, Motor Ass'y	4
M39	QBN1973	Spring, Head Base Return	1
M40	QMR2079	Lever, Eject	1
M41	QBT1992	Spring, Eject Lever etc.	2
M42	XYN26+B7.5	Screw, Motor Ass'y M'tg	2
M43	QDK1012	Steel Ball	3
M44	QMN2822	Axis, Control Button	1
M45	QGO2183	Pause Button	1
M46	QGO2202	Stop/Eject Button	1
M47	QGO2184	FF Button	1
M48	QGO2185	Rewind Button	1
M49	QGO2200	Playback Button	1
M50	QGO2201	Record Button	1
M51	XTN2+4J	Screw, R/P Head Shield Cover M'tg	1
M52	QTS1603	R/P Head Shield Cover	1
M60	QDB0351	Belt, Relay Pulley	1
M61	QDB0342	Belt, FF	1
M62	QXF0215	Flywheel Ass'y	1
M63	QDB0340	Belt, Flywheel	1
M64	XTW26+10S	Screw, Flywheel Holding Plate Ass'y M'tg	2
M65	QXH0433	Flywheel Holding Plate Ass'y	1
M66	QBT1997	Spring, Flywheel Earth	1
M67	QBC1302	Spring, Flywheel	1
M68	QBJ3098	Washer, Flywheel	1
M69	QML3999	Lever, Play Action	1
M70	QBT1990	Spring, Play Action Lever	1
M71	QML4011	Lever, Play Operation	1
M72	QBN1965	Spring, Pause, Stop/ Eject Rod	1
M73	XTW26+8S	Screw, Rod Hold Shield Plate etc.	4
M74	QBN1964	Spring, FF, REW Rod	1
M75	QBN1963	Spring, Record, Playback Rod	1
M76	QMG0122	Rod Hold	1
M77	QMR2078	Lock Rod	1
M78	QBT1992	Spring, Rod Hold	1
M79	QXR0888	Pause Rod	1
M80	QMR2072	Stop/Eject Rod	1
M81	QMR2071	FF Rod	1
M82	QMR2075	REW Rod	1
M83	QMR2073	Playback Rod	1
M84	QMR2080	Record Rod	1
M85	QML3994	Lever, Head Base Operation	1
M86	QBT1991	Spring, Head Base Operation Lever	1
M87	XUEV3V	Circlip	4
M88	QBW2016	Washer, Full Auto Drive Gear M'tg	1
M89	QDG1298	Full Auto Drive Gear	1
M90	QDP1954	Relay Pulley	1
M91	QDG1299	Reverse Gear	1

Ref. No.	Part No.	Part Name & Description	Per Set	
M92	QDG1297	REW Gear	1	
M93	QXL1646	FF Lever Ass'y	1	
M94	QMR2076	TPS Switch Control Rod	1	
M95	QBT1993	Spring, Full Auto Stop Incorrect Action Stop Lever	1	
M96	QML4003	Lever, Full Auto Stop Incorrect Action Stopper	1	
M97	QXL1644	Lever Ass'y, Idler With Spring	1	
M98	QTS1604	Shield Plate	1	
M99	XTN2+6J	Screw, Leaf Switch S11 M'tg	1	
M100	QML3996	Lever, Pause Action	1	
M101	QML4005	Lever, Pause Action Relay	1	
M102	QME0166	Plunger	1	
M103	XTN2+5F	Screw, Leaf Switch S9 M'tg	1	
M104	QBN1968	Spring, TPS Switch Control Rod	1	
M105	QMA4587	Bracket, Leaf Switch	1	
M106	XUC2FT	Circlip, Record Lever	1	S
M107	QML3998	Lever, Record	1	
M108	QBN1972	Spring, Record Lever	1	
M109	QBN1969	Spring, REC Release Stop Lever	1	
M110	QML4001	Lever, Record Operation	1	
M111	QML4007	Lever, REC Release Stopper	1	
M112	QML4006	Lever, Switch Control	1	
M113	QMR2077	Eject Slide Rod	1	
M114	QBN1970	Spring, Full Auto Stop Detector Lever Ass'y	1	
M115	QXL1637	Full Auto Stop Detector Lever Ass'y	1	
M116	QDG1303	Pause, TPS Operation Gear	1	
M117	QDG1302	Head Base Operation Gear	1	
M118	QBT1994	Spring, Pause Action Lever	1	
M119	QXK2738	Mechanism Base Ass'y	1	
M120	QMA4705	Bracket, Erase Head	1	
		INTEGRATED CIRCUITS, TRANSISTORS AND DIODES		
IC1	AN7220B	IC	1	
IC2	RVIBA1330	IC	1	
IC3	RVIBA328MR	IC	1	
IC4,5	RVITA7629P	IC	2	
IC6	RVILA4505	IC	1	
IC8	RVITA7666P	IC	1	
IC9	RVILC7515	IC	1	
Q1,3	2SA1254B	Transistor (Ge)	2	
Q2,4	2SC2206B	Transistor (Si)	2	
Q5,311,314	2SD636R	Transistor (Ge)	3	
Q6,102∿105,107 202∿205,207,302	2SC2021MLNS	Transistor (Si)	12	
Q7,301,313	2SB641R	Transistor (Ge)	3	
Q101,201	2SC1583F	Transistor (Si)	1	
Q106,206	2SD1330R	Transistor (Si)	2	
Q8,304,305	2SD973R	Trainsitor (Si)	3	
Q315	2SB643R	Transistor (Ge)	1	
Q316	2SD1266R	Transistor (Si)	1	
D1	RVDSD117	Diode (Si)	1	
D2,3,6,9,13,14 101∿103,201∿203 303,305,306,312 329,335,336	MA165	Diode (Si)	19	
D7,10,11, 328,332,337	MA161	Diode (Si)	6	S

Ref. No.	Part No.	Part Name & Description	Per Set	
D8	RVDRD6R2JB2	Diode (Si)	1	
D104∿108, 204∿208	LN101122P	LED (LEVEL METER)	1	
D302	RVDRD4R7JB	Diode (Si)	1	
D309,333, 334	RVDSM1A02	Diode (Si)	3	
D311	RVDRD11JB2	Diode (Si)	1	
D313	MA1068M	Diode (Si)	1	
D314∿317	RVDSM1502	Diode (Si)	4	
D318∿320	LN031120P	LED (POWER & FM ST)	1	
D322∿327	LN062121P	LED (REC & TPS)	1	
D330	MA27WA	Diode (Si)	1	
D331	RVDRD5R1JB2	Diode (Si)	1	
		THERMISTORS		
TH1	ERTD2FHL332S	Thermistor	1	
		COILS AND TRANSFORMERS		
L2	RLD4Y54	Antenna Coil, FM	1	
L4	RLO4N173	Oscillator Coil, FM	1	
L5,6	RLF6W6	Antenna Coil, LW, MW	1	
L101,201	QLQM1531	Coil, Trap	2	
L102,202	RLQZ8221	Inducter	2	
L301	RLO9C28	Coil, Bias	1	
T1	QLA3M8	Antenna Coil, SW	1	
T2,7	RLI4M101	IFT, FM 1st, 2nd	2	
T3	RLO1M4	Oscillator Coil, LW	1	
T4	RLO2M4	Oscillator Coil, MW	1	
T5	RLO3M31	Oscillator Coil, SW	1	
T6	RLI2M102	IFT, AM	1	
T301	RLT5Z4G3A	Power Transformer	1	⚠
		VARIABLE RESISTORS		
VR1,301, 302	EVNM4AA00B14	Variable Resistor, 10kΩ (B)	3	S
VR101,102,201,202	EVNM4AA00B54	Variable Resistor, 50KΩ (B)	4	S
VR103,203	EVNM4AA00B15	Variable Resistor, 100KΩ (B)	2	S
VR104,204	EVNM4AA00B24	Variable Resistor, 20KΩ (B)	2	S
VR105,106,205,206	EWCUUAF15A54	Variable Reisitor, 50KΩ (A)	2	
VR107,207	EVBV74S15B54	Variable Resistor, 50KΩ (B)	1	
VR303	EWHN4AF15G54	Variable Resistor, 50KΩ (G)	1	
		VARIABLE CAPACITOR		
VC1 4	RCV4RC2V1K	Tuning Capacitor w/Trimmer Capacitor (CT1∿4)	1	
CT5,6	RCVTZ20F	Trimmer Capacitor	2	
CT7	RCV1T8M	Trimmer Capacitor	1	
		CERAMIC FILTER		
CF1	RVFSFE107MAZ	Ceramic Filter, 10.7MHz	1	
CF2	RVFSFZ455B	Ceramic Filter, 455kHz	1	
CF2	RVFSFZ470B	Ceramic Filter, 470kHz (For U.K.)	1	
F101,201	RLE5030	Dolby Filter	2	
		COMPONENT COMBINATION		
Z1	RXABPWB3	Component Combination	1	
		SPEAKER		
SP1	EAS9P105SA	Speaker, 9cm(3 1/2"), 6 Ω (Upper)	2	
SP2	EAS9P103SA	Speaker, 9cm(3 1/2"), 6 Ω (Lower)	2	
		SWITCHES		
S1	RSH2J01W	Switch, Record/Playback	1	

Ref. No.	Part No.	Part Name & Description	Per Set
S2,4	RST3D17Z	Switch,Function Mode Beat Proof	2
S3	RST2F08Z	Switch, Tape	1
S5,6	RSH2B24X	Switch, Dolby NR, Loudness	2
S7	RSH1A20Z	Switch, TPS Program	1
S8	ESA11184130	Switch, Band	1
S9	QSB0236	Switch, Motor	1
S10	QSB0277	Switch, Play	1
S11	QSB0254	Switch, TPS	1
S12	Refer to J303	Switch, AC/DC IN	1
S13	RSR4A06Z	Switch, Voltage Selector	1 ⚠
		JACKS	
J101,201	RJJ1D7Z	Jack, EXT. MIC	2
J102,202	QJA0172A	Jack, EXT SP	2
J301	RJF1091Y	Jack, LINE IN/OUT	1
J302	RJJ1D11Z	Jack, Phones	1
J303	QJS0329	Jack, AC/DC IN	1 ⚠
		CABINET PARTS	
K1	RYMXF32LSX91	Front Cabinet Ass'y (Pearl Silver)	1 ⚠
K1	RYMXF32LSXG8	Front Cabinet Ass'y (Metallic Brown)	1 ⚠
K1	RYMXF32LEXE2	Front Cabinet Ass'y (Metallic Red), For U.K.	1 ⚠
K1	RYMXF32LEXE8	Front Cabinet Ass'y (Metallic Brown), For U.K.	1 ⚠
K2	RYFXF32LSXG8	Rear Cabinet Ass'y (Pearl Silver)	1 ⚠
K2	RYFXF32LSXG1	Rear Cabinet Ass'y (Metallic Brown)	1 ⚠
K2	RYFXF32LEXE2	Rear Cabinet Ass'y (Metallic Red), For U.K.	1 ⚠
K2	RYFXF32LEXE1	Rear Cabinet Ass'y (Metallic Brown), For U.K.	1 ⚠
K2	RYFXF32LSXZ8	Rear Cabinet Ass'y (Pearl Silver), F.R. Germany	1 ⚠
K2	RYFXF32LSXZ1	Rear Cabinet Ass'y (Metallic Brown), F.R. Germany	1 ⚠
K2-1	RJC969Z	Spring, Battery +,-	1
K2-2	QBN8009	Spring, Battery -	1
K2-3	QJB0111	Terminal Battery +	1
K2-4	RKX275Z	Handle (Pearl Silver)	1
K2-4	RKX275Z2	Handle (Metallic Brown)	1
K2-4	RKX275Z1	Handle (Metallic Red), For U.K.	1
K2-5	RKX274Z	Arm, Handle	2
K2-6	RKT137Z	Bush, Handle(Left) (Pearl Silver)	1
K2-6	RKT137Z2	Bush, Handle (Left) (Metallic Brown)	1
K2-6	RKT137Z1	Bush, Handle (Left) (Metallic Red) For U.K.	1
K2-7	RKT136Z	Bush, Handle (Right) (Pearl Silver)	1
K2-7	RKT136Z2	Bush, Handle (Right) (Metallic Brown)	1
K2-7	RKT136Z1	Bush, Handle (Right) (Metallic Red) For U.K.	1
K2-8	XTS3+10GFN	Screw, Handle M'tg (Pearl Silver)	2
K2-8	XTS3+10GZ	Screw, Handle M'tg (Metallic Brown) (Metallic Red)	2
K2-9	RJT810Z	Terminal, Antenna	1
K3	RYQXF35N	Cassette Cover Ass'y	1
K3-1	RBC471Z	Button, Counter Reset	1

Ref. No.	Part No.	Part Name & Description	Per Set
K3-2	RUS497Z	Spring, Counter Reset Button	1
K4	XEARR228EAY	Telescopic Antenna	1
K5	RYEXF32LSXG1	Top Cover Ass'y (Pearl Silver)	1
K5	RYEXF32LSXG	Top Cover Ass'y (Metallic Brown)	1
K5	RYEXF32LEXE2	Top Cover Ass'y (Metallic Red) For U.K.	1
K6	RBN640Z	Knob, Tuning	1
K7	RBN606X1	Knob, Volume (Pearl Silver)	3
K7	RBN606X	Knob, Volume (Metallic Brown) (Metallic Red)	3
K8	RUB281Z	Lock Lever	1
K9	RDG5697Z	Gear, Cassette Cover	1
K10	RBN642Z	Knob, Fine Tuning	1
K11	RME297Z	Bearing, Gear	1
K12	RUS500Z	Spring, Cassette Cover (Right)	1
K13	RUS501Z	Spring, Cassette Cover (Left)	1
K14	RYNXF35N8	Battery Cover Ass'y (Pearl Silver)	1 ⚠
K14	RYNXF35N1	Battery Cover Ass'y (Metallic Brown)	1 ⚠
K14	RYNXF35N2	Battery Cover Ass'y (Metallic Red) For U.K.	1 ⚠
K15	RQT4318X	Operation Expression Sheet	1
K16	XTN3+50G	Screw, Cabinet M'tg	8
K17	XWF3F12	Washer, Cassette Cover Spring M'tg	4
K18	XTV3+8G	Screw, Cassette Cover Spring M'tg	6
K19	XSN3+12FN	Screw, Antenna M'tg (Pearl Silver)	1
K19	XSN3+12FZ	Screw, Antenna M'tg (Metallic Brown) (Metallic Red)	1
		ELECTRICAL PARTS	
E1	RKE427Z	Jack Board (Pearl Silver)	1
E1	RKE427Z2	Jack Board (Metallic Brown)	1
E1	RKE427Z1	Jack Board (Metallic Red)	1
E2	RDD581Z	Drum Dial	1
E3	RZAXF32LSXG	Dial Chassis Ass'y	1
E3-1	RDF233Z	Shaft, Tuning	1
E3-2	QDP1477	Roller, Dial	2
E3-3	QDP1678	Roller, Dial	3
E3-4	QMN8001	Shaft, Roller	5
E3-5	RDR50Z	Roller, Dial	1
E3-6	XUC3FT	Circlip	1 S
E4	RYTXF35N	Slide Knob Ass'y	1
E5	RUP1734Z	Power Supply Circuit	1 ⚠
E6	QTW1135	Cover, AC Socket	1 ⚠
E7	RUV387Z	Cover, Voltage Selector	1 ⚠
E8	RJS3L3Z	Socket, 3Pin (CP5,6,7)	3
E9	RJS5L3Z	Socket, 5Pin (CP4)	1
E10	RJS6L3Z	Socket, 6Pin (CP2)	1
E11	QJP192LTN	Plug, 3Pin (CP1,3)	2
E12	RJP3G4Z	Plug, 3Pin (CP5,6,7)	3
E13	RJP5G4Z	Plug, 5Pin (CP4)	1
E14	RJP6G4Z	Plug, 6Pin (CP2)	1
E15	RJT707Z	Terminal, Socket	20
E16	RDZ05Z	Cord, Dial (110cm)	1ROLL
E17	QBT1320	Spring, Dial	1
E18	RJM142Z	Built-in Microphone	2
E19	QBG1616	Cover, Microphone	2
E20	QTF1054	Holder, Fuse	2
E21	RHR163Z	Guide Ring, LED	1
E22	RZPXF35N	Pointer Ass'y	1
E23	RBC473Y	Button, Dolby	1

Ref. No.	Part No.	Part Name & Description	Per Set	
E24	RBC472Z	Button, TPS	1	
E25	RBS213Z	Knob, Band	1	
E26	RBS212Z1	Knob, Selector (Pearl Silver)	2	
E26	RBS212Z	Knob, Selector (Metallic Brown)	2	
E27	XBA2C16TR0	Fuse (T1.6A)	1	⚠
E28	RBS211Z	Knob, Function	1	
E29	RKD637X	Scale, Dial	1	
E29	RKD637W	Scale, Dial, For U.K.	1	
E29	RKD637V	Scale Dial, F.R.Germany	1	
E30	QKT1364	Bracket, Speaker	12	
E31	RBS210Z	Button, Loudness	1	
E32	XTV3+10GR	Screw, P.C.B. M'tg	9	
E33	XTN3+35GR	Screw, P.C.B. & Mechanism M'tg	7	
E34	XTV4+12JR	Screw, Power Transformer M'tg	3	
E35	XTW3+8Q	Screw, Speaker M'tg	12	
E36	XTS3+14GN	Screw, Jack Board M'tg (Pearl Silver)	1	
E36	XTS3+14GZ	Screw, Jack Board M'tg (Metallic Brown) (Metallic Red)	1	
E37	XSN2+6	Screw, Volume Switch M'tg	2	S
E38	XSS3+6S	Screw, Band Switch M'tg	2	S
E39	XSN26+W8	Screw, Dial Drum M'tg	1	
E40	XSN3+10S	Screw, Heat Shink M'tg	2	S
E41	XWG3	Washer, Heat Shink M'tg	2	S
E42	XTN3+10F	Screw, Transistor(Q316) M'tg	1	
E43	QTTK0054	Cap, Speaker	1	
		ACCESSORIES		
	RJA20Z	Power Cord, AC	1	⚠
	RJA43Z	Power Cord, AC, For U.K.	1	⚠
	QQC1023	Caution tag, For U.K.	1	
	RQT4226Z	Caution tag, For U.K.	1	
		PACKING MATERIALS		
	RPK1616Z	Gift Box	1	
	RPN9435Z	Pad	1	
	XZB40x60A01	Polyethylene Cover	1	
	XZB10x30A02	Polyethylene Cover	1	
	RQE13Z	Caution tag	1	
		PRINTED MATERIAL		
	RQX4150Z	Instruction Book	1	

Ref. No.	Part No.	Value
	RESISTORS	
R2	ERD10TJ332	3.3K S
R3	ERD25FJ470	47 S
R4	ERD25TJ474	470K S
R5	ERD10TJ474	470K S
R6	ERD10TJ101	100 S
R8	ERD10TJ334	330K S
R9	ERD10TJ332	3.3K S
R10	ERD25FJ333	33K S
R11	ERD25FJ223	22K S
R12	ERD25FJ472	4.7K S
R13	ERD25FJ561	560 S
R14	ERD10TJ474	470K S
R15	ERD25FJ151	150 S
R16	ERD25FJ331	330 S
R17	ERD25FJ470	47 S
R21	ERD25FJ101	100 S
R22	ERD10TJ563	56K S
R23	ERD10TJ331	330 S
R24	ERD10TJ222	2.2K
R25	ERD10TJ681	680 S
R26	ERD25FJ470	47 S
R27	ERD10TJ682	6.8K S
R28	ERD10TJ823	82K S
R29	ERD10TJ224	220K S
R30	ERD25TJ474	470K S
R31	ERD10TJ274	270K S
R32	ERD25FJ332	3.3K S
R33	ERD25FJ122	1.2K S
R34	ERD10TJ153	15K S
R35	ERD25FJ101	100 S
R36	ERD25FJ681	680 S
R37	ERD10TJ103	10K S
R38	ERD10TJ102	1K S
R39	ERD10TJ392	3.9K S
R40	ERD25FJ821	820 S
R41	ERD25FJ473	47K S
R42	ERD10TJ392	3.9K S
R43	ERD10TJ563	56K S
R44	ERD10TJ561	560 S
R45	ERD10TJ561	560 S
R46	ERD10TJ471	470 S
R47	ERD10TJ182	1.8K S
R48	ERD10TJ473	47K S
R49	ERD10TJ182	1.8K S
R50	ERD10TJ473	47K S
R51	ERD25FJ150	15 S
R52	ERD10TJ473	47K S
R101	ERD10TJ102	1K S
R102	ERD10TJ100	10 S
R103	ERD10TJ473	47K S
R104	ERD10TJ222	2.2K S
R105	ERD10TJ562	5.6K S
R106	ERD10TJ222	2.2K S
R107	ERD10TJ562	5.6K S
R108	ERD10TJ470	47 S
R109	ERD10TJ123	12K S
R110	ERD10TJ823	82K S
R111	ERD10TJ562	5.6K S
R112	ERD10TJ153	15K S
R113	ERD10TJ332	3.3K S
R114	ERD10TJ562	5.6K S
R115	ERD10TJ332	3.3K S
R117	ERD10TJ102	1K S
R118	ERD10TJ104	100K S
R119	ERD10TJ331	330 S
R120	ERD10TJ472	4.7K S
R121	ERD25FJ821	820 S
R122	ERC18GJ105	1M S
R124	ERD10TJ183	18K S
R125	ERD10TJ274	270K S
R126	ERD10TJ154	150K S
R127	ERD10TJ332	3.3K S
R129	ERD10TJ332	3.3K S
R130	ERD10TJ104	100K S
R131	ERD10TJ473	47K S
R132	ERD10TJ103	10K S
R133	ERD10TJ473	47K S
R134	ERD10TJ181	180 S

Ref. No.	Part No.	Value
R135	ERD25FJ472	4.7K S
R136	ERD10TJ562	5.6K S
R137	ERD10TJ820	82 S
R138	ERD10TJ332	3.3K S
R139	ERD10TJ334	330K S
R140	ERD10TJ152	1.5K S
R141	ERD10TJ472	4.7K S
R142	ERD10TJ123	12K S
R143	ERD10TJ104	100K S
R144	ERD10TJ333	33K S
R145	ERD10TJ473	47K S
R146	ERD10TJ333	33K S
R147	ERD10TJ472	4.7K S
R149	ERD10TJ154	150K S
R150	ERD10TJ152	1.5K S
R151	ERD10TJ560	56 S
R152	ERD10TJ822	8.2K S
R153	ERD10TJ102	1K S
R154	ERD10TJ102	1K S
R156	ERD10TJ472	4.7K S
R157	ERD10TJ103	10K S
R158	ERD10TJ471	470 S
R159	ERD10TJ330	33 S
R160	ERD10TJ820	82 S
R161	ERD10TJ473	47K S
R162	ERD10TJ102	1K S
R163	ERD10TJ102	1K S
R164	ERD10TJ471	470 S
R165	ERD10TJ471	470 S
R166	ERD10TJ471	470 S
R167	ERD10TJ102	1K S
R168	ERD10TJ394	390K S
R169	ERD10TJ823	82K S
R170	ERD10TJ1R0	1 S
R171	ERD10TJ222	2.2K S
R172	ERD10TJ124	120K S
R201	ERD10TJ102	1K S
R202	ERD10TJ100	10 S
R203	ERD10TJ473	47K S
R204	ERD10TJ222	2.2K S
R205	ERD10TJ562	5.6K S
R206	ERD10TJ222	2.2K S
R207	ERD10TJ562	5.6K S
R208	ERD10TJ470	47 S
R209	ERD10TJ123	12K S
R210	ERD10TJ823	82K S
R211	ERD10TJ562	5.6K S
R212	ERD10TJ153	15K S
R213	ERD10TJ332	3.3K S
R214	ERD10TJ562	5.6K S
R215	ERD10TJ332	3.3K S
R217	ERD10TJ102	1K S
R218	ERD10TJ104	100K S
R219	ERD10TJ331	330 S
R220	ERD10TJ472	4.7K S
R221	ERD10TJ821	820 S
R222	ERC18GJ105	1M S
R224	ERD10TJ183	18K S
R225	ERD10TJ274	270K S
R226	ERD10TJ154	150K S
R227	ERD10TJ332	3.3K S
R229	ERD10TJ332	3.3K S
R230	ERD10TJ104	100K S
R231	ERD10TJ473	47K S
R232	ERD10TJ103	10K S
R233	ERD10TJ473	47K S
R234	ERD10TJ181	180 S
R235	ERD25FJ472	4.7K S
R236	ERD25FJ562	5.6K S
R237	ERD25FJ820	82 S
R238	ERD10TJ332	3.3K S
R239	ERD10TJ334	330K S
R240	ERD10TJ152	1.5K S
R241	ERD10TJ472	4.7K S
R242	ERD10TJ123	12K S
R243	ERD10TJ104	100K S

Ref. No.	Part No.	Value
R244	ERD10TJ333	33K S
R245	ERD10TJ473	47K S
R246	ERD10TJ333	33K S
R247	ERD10TJ472	4.7K S
R249	ERD10TJ154	150K S
R250	ERD10TJ152	1.5K S
R251	ERD10TJ560	56 S
R252	ERD25FJ822	8.2K S
R253	ERD10TJ102	1K S
R254	ERD25FJ102	1K S
R256	ERD10TJ472	4.7K S
R257	ERD10TJ103	10K S
R258	ERD10TJ471	470 S
R259	ERD10TJ330	33 S
R260	ERD10TJ820	82 S
R261	ERD10TJ473	47K S
R262	ERD10TJ102	1K S
R263	ERD10TJ102	1K S
R264	ERD10TJ471	470 S
R265	ERD10TJ471	470 S
R266	ERD10TJ471	470 S
R267	ERD10TJ102	1K S
R268	ERD10TJ394	390K S
R269	ERD10TJ823	82K S
R270	ERD10TJ1RO	1 S
R271	ERD10TJ222	2.2K S
R272	ERD10TJ124	120K S
R301	ERD10TJ1RO	1 S
R302	ERD25FJ103	10K S
R303	ERD10TJ103	10K S
R305	ERD10TJ102	1K S
R306	ERD10TJ182	1.8K S
R308	ERD25FJ4R7	4.7 S
R309	ERD10TJ473	47K S
R311	ERD25FJR47	0.47 S
R312	ERD10TJ222	2.2K S
R313	ERD10TJ222	2.2K S
R314	ERD25FJ8R2	8.2 S
R315	ERD25FJ681	680 S
R316	ERD25FJ681	680 S
R317	ERD25FJ333	33K S
R318	ERD25FJ333	33K S
R319	ERD10TJ821	820 S
R321	ERD25FJ101	100 S
R322	ERD10TJ562	5.6K S
R323	ERX12ANJR22	0.22 S
R324	ERD10TJ102	1K S
R326	ERD10TJ472	4.7K S
R327	ERD25FJ151	150 S
R328	ERD10TJ271	270 S
R329	ERD10TJ682	6.8K S
R330	ERD10TJ153	15K S
R331	ERD10TJ103	10K S
R332	ERD10TJ103	10K S
R333	ERD10TJ102	1K S
R334	ERD10TJ222	2.2K S
R336	ERD10TJ103	10K S
R338	ERD10TJ153	15K S
R339	ERD10TJ103	10K S
R341	ERD10TJ103	10K S
R342	ERD10TJ102	1K S
R343	ERD10TJ182	1.8K S
R344	ERD10TJ222	2.2K S
R345	ERD10TJ563	56K S
R346	ERD10TJ223	22K S
R347	ERD10TJ390	39 S
R348	ERD10TJ102	1K S
R349	ERD10TJ224	220K S
R350	ERD10TJ124	120K S
R351	ERD10TJ103	10K S
R352	ERD10TJ682	6.8K S
R353	ERD10TJ102	1K S
R354	ERD10TJ563	56K S
R355	ERD50FJ181	180 S
R356	ERD10TJ102	1K S
R357	ERD10TJ124	120K S
R358	ERD10TJ221	220 S
R361	ERD10TJ120	12 S

Ref. No.	Part No.	Value
R362	ERD10TJ471	470 S
R363	ERD10TJ561	560 S
R364	ERD10TJ151	150 S
R365	ERD10TJ472	4.7K S
R367	ERD25FJ223	22K S
R368	ERD10TJ103	10K S
R369	ERD10TJ681	680 S
R370	ERD10TJ273	27K S
R371	ERD10TJ102	1K S
R372	ERC10TJ564	560K S
R373	ERD25FJ4R7	4.7 S
R375	ERD10TJ333	33K S
R376	ERD10TJ103	10K S
R377	ERD10TJ273	27K S
R378	ERD10TJ221	220 S
R379	ERD10TJ100	10 S
	CAPACITORS	
C1	ECCD1H040C	4P
C2	ECBT1H390J	39P
C3	ECCD1H470KC	47P
C4	ECBT1H100J	10P
C5	ECKD1H223ZF	0.022
C6	ECBT1H220J	22P
C7	ECBT1H102MD	0.001
C8	ECBT1H2R7K	2.7P
C10	ECBT1H100JC	10P
C11	ECCD1H1R5CC	1.5P
C12	ECBT1H180JR	18P
C13	ECCD1H070C	7P
C14	ECBT1H102MD	0.001
C16	ECCD1H220KC	22P
C18	ECBT1H220J	22P
C20	ECBT1E103NX	0.01
C21	ECCD1H100FC	10P
C22	ECQP1221JZ	220P
C23	ECQP1361JZ	360P
C24	ECQP1392JZ	3900P
C25	ECQP1151JZ	150P
C26	ECCD1H120KC	12P
C27	ECKD1H103ZF	0.01
C28	ECBT1E103NX	0.01
C29	ECBT1H102MD	0.001
C30	ECBT1E103NX	0.01
C31	ECEA50ZR22	0.22 S
C32	ECKD1H223ZF	0.022
C35	ECKD1H223ZF	0.022
C36	ECFVD393MX	0.039
C37	ECEA1AS470	47 S
C38	ECEA1HS100	10 S
C39	ECFVD223MX	0.022
C40	ECKD1H181KB	180P
C41	ECCD1H470KC	47P
C42	ECFVD473MX	0.047
C43	ECFVD333MX	0.033
C44	ECFVD223MX	0.022
C45	ECKD1H471KB	470P
C46	ECBT1H470J	47P
C47	ECEA50Z1	1 S
C48	ECFVD473MX	0.047
C49	ECEA1AS101	100 S
C50	ECQP1681JZ	680P
C51	ECEA1AS101	100 S
C52	ECEA50Z1	1 S
C53	ECEA25Z4R7	4.7 S
C54	ECEA50ZR47	0.47
C55	ECEA50ZR22	0.22
C57	ECFVD393MX	0.039
C58	ECEA50Z1	1 S
C59	ECEA50Z1	1 S
C60	ECEA50Z3R3	3.3 S
C61	ECBT1C223NY	0.022
C62	ECEA50ZR1	0.1 S
C63	ECKD1H103ZF	0.01
C64	ECFVD104MX	0.1
C65	ECBT1H5R6K	5.6P
C66	ECKD1H102MD	0.001
C101	ECEA50Z1	1 S
C102	ECEA50ZR22	0.22 S

Ref. No.	Part No.	Value
C103	ECKD1H101KB	100P
C104	ECEA1HS100	10 S
C105	ECKD1H681KB	680P
C106	ECKD1H471KB	470P
C107	ECFVD473KX	0.047
C108	ECKD1H471KB	470P
C109	ECEA1CS330	33 S
C110	ECFVD182KV	0.0018
C111	ECEA50Z3R3	3.3 S
C112	ECFVD222KV	0.0022
C114	ECEA50Z3R3	3.3 S
C115	ECFVD153MX	0.015
C116	ECEA1HS100	10 S
C117	ECKD1H101KB	100P
C118	ECEA50Z3R3	3.3 S
C119	ECQV05334JZ	0.33
C120	ECFVD273KX	0.027
C122	ECQV05104JZ	0.1
C123	ECEA1AS331	330 S
C124	ECEA1HS100	10 S
C125	ECEA50ZR1	0.1 S
C126	ECFVD473KX	0.047
C127	ECEA1HS100	10 S
C128	ECFVD472KV	0.0047
C129	ECEA50ZR1	0.1 S
C130	ECFVD562KV	0.0056
C131	ECEA1HS100	10 S
C132	ECEA50Z1	1 S
C133	ECEA50Z1	1 S
C134	ECFVD153MX	0.015
C135	ECEA50ZR1	0.1 S
C136	ECFVD102KV	0.001
C137	ECEA50Z1	1 S
C139	ECEA50ZR22	0.22 S
C140	ECFVD682KV	0.0068
C141	ECFVD223MX	0.022
C142	ECEA50ZR22	0.22 S
C143	ECFVD473MX	0.047
C144	ECKD1H152KB	0.0015
C145	ECEA1HKR22	0.22
C146	ECEA50Z1	1 S
C147	ECEA1CU471	470
C148	ECFVD102KV	0.001
C149	ECEA1AS101	100
C150	ECCD1H150KC	15P
C152	ECBT1E103NX	0.01
C153	ECEA1AS101	100 S
C154	ECEA1CS102	1000 S
C155	ECQV05104JZ	0.1
C156	ECEA1HK0R1	0.1
C157	ECBS1H331KB	330P
C158	ECEA1EK4R7	4.7
C159	ECEA50Z1	1 S
C160	ECEA50Z1	1 S
C201	ECEA50Z1	1 S
C202	ECEA50ZR22	0.22 S
C203	ECKD1H101KB	100P
C204	ECEA1HS100	10 S
C205	ECKD1H681KB	680P
C206	ECKD1H471KB	470P
C207	ECFVD473KX	0.047
C208	ECKD1H471KB	470P
C209	ECEA1CS330	33 S
C210	ECFVD182KV	0.0018
C211	ECEA50Z3R3	3.3 S
C212	ECFVD222KV	0.0022
C214	ECEA50Z3R3	3.3 S
C215	ECFVD153MX	0.015
C216	ECEA1HS100	10 S
C217	ECKD1H101KB	100P
C218	ECEA50Z3R3	3.3 S
C219	ECQV05334JZ	0.33
C220	ECFVD273KX	0.027
C222	ECQV05104JZ	0.1
C223	ECEA1AS330	33 S
C224	ECEA1HS100	10 S
C225	ECEA50ZR1	0.1 S
C226	ECFVD473KX	0.047
C227	ECEA1HS100	10 S
C228	ECFVD472KV	0.0047
C229	ECEA50ZR1	0.1 S
C230	ECFVD562KV	0.0056
C231	ECEA1HS100	10 S
C232	ECEA50Z1	1 S
C233	ECEA50Z1	1 S

Ref. No.	Part No.	Value
C234	ECFVD153MX	0.015
C235	ECEA50ZR1	0.1 S
C236	ECFVD102KV	0.001
C237	ECEA50Z1	1 S
C239	ECEA50ZR22	0.22 S
C240	ECFVD682KV	0.0068
C241	ECFVD223MX	0.022
C242	ECEA50ZR22	0.22 S
C243	ECFVD473MX	0.047
C244	ECKD1H152KB	0.0015
C245	ECEA1HKR22	0.22
C246	ECEA50Z1	1 S
C247	ECEA1AS101	100
C248	ECFVD102KV	0.001
C249	ECEA1AS101	100
C250	ECCD1H150KC	15P
C252	ECBT1E103NX	0.01
C253	ECBT1E103NX	0.01
C254	ECEA1CS102	1000 S
C255	ECQV05104JZ	0.1
C256	ECEA1HK0R1	0.1
C257	ECBS1H331KB	330P
C258	ECEA1EK4R7	4.7
C259	ECEA50Z1	1 S
C260	ECEA50Z1	1 S
C301	ECQV05563JZ	0.056
C302	ECQP1472JZ	0.0047
C303	ECQV05223JZ	0.022
C304	ECEA1AU471	470
C305	ECEA1AU102	1000
C306	ECFVD103MX	0.01
C307	ECQP1361JZ	360P
C308	ECFVD472KV	0.0047
C311	ECFVD682KV	0.0068
C312	ECFVD682KV	0.0068
C313	ECEA1HS100	10 S
C314	ECEA1HS100	10 S
C317	ECEA1AU102	1000
C319	ECFVD222KV	0.0022
C320	ECEA1HS100	10 S
C321	ECEA1AU102	1000
C322	ECEA1AS101	100 S
C323	ECFVD152KV	0.0015
C324	ECEA25Z4R7	4.7 S
C325	ECEA1HS100	10 S
C326	ECBS1H102MD	0.001
C327	ECBS1H471KB	470P
C328	ECBS1C103NY	0.01
C329	ECEA1HK010	1
C330	ECEA1HK010	1
C331	ECEA1EK3R3	3.3
C332	ECEA1CK100	10
C333	ECEA1HK010	1
C334	ECFVD473MX	0.047
C335	ECEA1HK010	1
C336	ECEA1AK470	47
C337	ECEA1CS330	33 S
C338	ECEA1AU102	1000
C339	ECEA1CS221	220 S
C340	ECEA1CU471	470
C341	ECEA1CS222	2200 S
C342	ECKD1H223ZF	0.022
C343	ECKD1H223ZF	0.022
C344	ECKD1H223ZF	0.022
C345	ECKD1H223ZF	0.022
C346	ECEA1CU221	220
C347	ECKD1H223ZF	0.022
C349	ECEA50Z2R2	2.2 S
C350	ECKD1H101KB	100P
C351	ECKD1H471KB	470P
C352	ECFVD153MX	0.015
C353	ECEA1HS100	10 S
C354	ECKD1H471KB	470P
C355	ECKD1H102KB	0.001
C356	ECKD1H101KB	100P
C357	ECKD1H331KB	330P
C358	ECKD1H331KB	330P
C359	ECKD1H221KB	220P
C360	ECKD1H221KB	220P
C361	ECKD1H103ZF	0.01
C362	ECKD1H223ZF	0.022
C364	ECFVD333MX	0.033
C365	ECEA1CK100	10

RD Ⓗ XG/XE/XGZ
Printed in Japan

RX-F32LS DEUTSCH

■ TECHNISCHE DATEN

Allgemeines:

Stromversorgung: Wechselstrom: 110~115/115~127/200~220/230~250V, 50/60Hz
Batterien: 12V (acht Trockenbatterien der Große "C": National UM-2 o.ä.)
Kraftwagenbatterie: über den Kraftwagenadaptor RP-952
Leistungsaufnahme: 25W (bei Netzbetrieb)
Ausgangsleistung: max. 20W (2×10W) eff.
Lautsprecher: Dynamischer PM-Lautsprecher, ⌀9cm (6Ω)
Eingangsspannungen: MIC: Empfindlichkeit 0,25mV, Mikrofonimpedanz 200~600Ω
LINE IN: Empfindlichkeit 200mV/mind. 50kΩ
DC IN: 12V
Ausgangsimpedanzen: LINE OUT: Empfindlichkeit 420mV/max. 47kΩ
EXT SP: 3~8Ω
HEADPHONES: 32Ω
Abmessungen (B×H×T): 418×220×110mm
Gewicht (ohne Batterien): 4,15kg

Empfangsteil:

Wellenbereiche: UKW: 87,5~108MHz
LW: 150~285kHz (2000~1060m)
MW: 520~1610kHz (577~186m)
KW: 5,9~18MHz (50,8~16,7m)
Zwischenfrequenz: UKW: 10,7MHz
LW/MW/KW: 455kHz
Empfindlichkeit: UKW: 1,8μV bei 500mW Ausgangsleistung
LW: 178μV/m bei 50mW Ausgangsleistung
MW: 141μV/m bei 50mW Ausgangsleistung
KW: 8,9μV bei 50mW Ausgangsleistung

Tonbandteil:

Frequenzgang: 60~12.000Hz (Normalband)
60~14.000Hz (Reineisenband)
Aufnahmesystem: Wechselstrom-Vormagnetisierung, Wechselstromlöschung
Bandgeschwindigkeit: 4,8cm/s
Gleichlaufschwankungen: 0,2% bewertet (WRMS)
Spieldauer: 1 Stunde mit Cassette C-60
Spurlage: Stereoaufnahme und-wiedergabe auf 4 Spuren/2 Kanälen

Änderungen vorbehalten.

BEZEICHNUNGEN IN DER SCHEMATISCHEN DARSTELLUNG

Bemerkungen:

1. S1-1~S1-10: Aufnahme-/Wiedergabeschalter auf „Wiedergabe". (1...Wiedergabe, 3...Aufnahme)
2. S2-1~S2-4: Funktionsschalter auf „TAPE/OFF". (1 = TAPE/OFF, 2 = RADIO, 3 = LINE IN)
3. S3-1~S3-5: Bandsortenwähler auf „METAL". (1 = NORMAL, 2 = METAL)
4. S4-1~S4-4: Betriebsart-/Schwebungsunterdrückungsschalter auf „STEREO/II". (1 = MONO/I, 2 = STEREO/II, 3 = AMBIENCE/III)
5. S5: Dolby NR schalter auf „OUT".
6. S6-1, S6-2: Loudness schalter auf „AUS".
7. S7: TPS-Programmschalter.
8. S8-1~S8-8: Wellenbereichsschalter auf „FM". (1 = UKW, 2 = LW, 3 = MW, 4 = KW)
9. S9: Motors schalter auf „OFF".
10. S10: Wiedergabetaste auf „OFF".
11. S11: TPS schalter auf „AUS".
12. S12: Wahlschalter für Gleichstrom- oder Wechselstrombetrieb auf „DC IN".
13. S13: Netzspannungswähler.
14. VR101, 201: Spannungsregler zur Einstellung der Dolby.
15. VR102, 202: Spannungsregler zur Einstellung des Aufnahmestrom.
16. VR103, 203: Spannungsregler zur Einstellung des Vormagnetisierstroms.
17. VR104, 204: Spannungsregler zur Einstellung des Anzeigepegels.
18. VR105, 205: Baßregler.
19. VR106, 206: Höhenregler.
20. VR107, 207: Lautstärkeregler.
21. VR301: Spannungsregler zur Einstellung des Löschstroms. (NORMAL)
22. VR302: Spannungsregler zur Einstellung des Löschstroms. (METAL)
23. VR303: Balanceregler.
24. Die Markierung (▼) bezeichnet einen Meßpunkt, z.B. ▼1 = Meßpunkt 1.
25. Alle Gleichspannungen sind mit einem Elektronikvoltmeter vom negativen Batterieanschluß aus zu messen.
< >...Stellung „UKW", ( )...Stellung „AM",
(( ))..Stellung „Aufnahme",
Nein marke...Stellung „Wiedergabe".
26. Batteriestrom: ohne Signal 135mA
bei maximaler Ausgangsleistung (Radio) 1.2A
bei maximaler Ausgangsleistung (Cassette) 1.3A
27. Zur Betriebssicherheit
Die im Schaltplan mit ⚠ gekennzeichneten Bauteile sind für einen sicheren Betrieb dieses Gerätes besonders wichtig und sollten daher nur durch Originalbauteile ersetzt werden.

ABGLEICH

■ VORGANGSWEISE BEIM ABGLEICH

BITTE DIESEN ABSCHNITT VOR DEM ABGLEICH SORGFÄLTIG DURCHLESEN

1. Den Lautstärkeregler in die Maximalposition stellen.
2. Den Baßregler und den Höhenregler in die Mittelposition stellen.
3. Den Wellenbereichsschalter auf LW, MW, KW oder UKW stellen.
4. Den Balanceregler in die Mittelposition stellen.
5. Den dolby NR schalter auf „AUS".
6. Den Loudness schalter auf „AUS".
7. Den Funktionsschalter auf „radio" stellen.
8. Drehen Sie den Feinabstimmregler in die Mittelstellung.
9. Eine Gleichspannung von 12V anlegen.
10. Der Signalgeneratorausgang sollte nicht größer sein, als für eine Ausgangsanzeige unbedingt notwendig ist.

■ LW-, MW- und KW-ABGLEICH

	WELLENBAND	SIGNALGENERATOR oder WOBBELGENERATOR ANSCHLÜSSE	SIGNALGENERATOR oder WOBBELGENERATOR FREQUENZ	STELLUNG DES ABSTIMMREGLERS	MESSGERÄT (ELEKTRONIK-VOLTMETER oder OSZILLOSKOP)	ABGLEICH	BEMERKUNGEN
		AM-ZF-ABGLEICH					
(1)	MW	Aus einem Draht einige Schleifenwindungen bilden und das Signal in die Empfängerschleife abstrahlen.	455kHz, 30% mod. (Modulationsfrequenz 400Hz)	Der Abstimmpunkt, wo keine Interferenz auftritt (ungefähr bei 600kHz).	Ausgangsleistungsmesser parallel zur Lautsprecher-Schwingspule.	T6 (AM-ZF-Abgleich)	Die maximale Ausgangsleistung einstellen.
		LW-HF-ABGLEICH					
(2)	LW	〃	145kHz	145kHz (Siehe Abb. 13.)	Ausgangsleistungsmesser parallel zur Lautsprecher-Schwingsuple.	T3 (LW-Oszillatorspule) (*1) L5 (LW-Antennenspule)	Die maximale Ausgangsleistung einstellen. L5 durch Verschieben am Ferritkern abgleichen.
(3)	LW	〃	285kHz	285kHz (Siehe Abb. 13.)	〃	CT6 (LW-Oszillatortrimmer) CT5 (LW-Antennentrimmer)	Die maximale Ausgangsleistung einstellen. Die Schritte (2) und (3) wiederholen.
		MW-HF-ABGLEICH					
(4)	MW	Aus einem Draht einige Schleifenwindungen bilden und das Signal in die Empfängerschleife abstrahlen.	550kHz	550kHz (Siehe Abb. 13.)	Ausgangsleistungsmesser parallel zur Lautsprecher-Schwingspule.	T4 (MW-Oszillatorspule) (*1) L6 (MW-Antennenspule)	Die maximale Ausgangsleistung einstellen. L6 durch Verschieben am Ferritkern abgleichen.
(5)	MW	〃	1.500kHz	1.500kHz (Siehe Abb. 13.)	〃	CT3 (MW-Oszillatortrimmer) CT4 (MW-Antennentrimmer)	Die maximale Ausgangsleistung einstellen. Die Schritte (4) und (5) wiederholen.
		(*1) Nach beendetem Abgleich ist der Antennenspulenkörper mit Wachs zu befestigen.					
		KW-HF-ABGLEICH					
(6)	KW	Über einen Keramikkondensator (10pF) an den Meßpunkt ▼1 anschließen. Den negativen Ausgang an den Meßpunkt ▼2 anschließen.	5.9MHz	5.9MHz (Siehe Abb. 13.)	Ausgangsleistungsmesser parallel zur Lautsprecher-Schwingspule.	T5 (KW-Oszillatorspule) T1 (KW-Antennenspule)	Die maximale Ausgangsleistung einstellen.
(7)	KW	〃	18MHz	18MHz (Siehe Abb. 13.)	〃	CT7 (KW-Oszillatortrimmer)	Die maximale Ausgangsleistung einstellen. Die Schritte (6) und (7) wiederholen.

■ UKW-A

	WELLENBAND
(1)	UKW
(2)	UKW
(3)	UKW
(4)	UKW
(5)	UKW
(6)	UKW

(*2) Es

■ KANAL

PRÜF

Einstell Pilotton

■ AUDIO-

EINSTE

Azimut

Oszillat frequen Vormag rung

Löschst

CHLESEN

	stellen. in die Mittelstellung. egen. nicht größer sein, als gt notwendig ist.

	BEMERKUNGEN
	Die maximale Ausgangsleistung einstellen.
	Die maximale Ausgangsleistung einstellen. L5 durch Verschieben am Ferritkern abgleichen.
	Die maximale Ausgangsleistung einstellen. Die Schritte (2) und (3) wiederholen.
	Die maximale Ausgangsleistung einstellen. L6 durch Verschieben am Ferritkern abgleichen.
	Die maximale Ausgangsleistung einstellen. Die Schritte (4) und (5) wiederholen.
	Die maximale Ausgangsleistung einstellen.
	Die maximale Ausgangsleistung einstellen. Die Schritte (6) und (7) wiederholen.

■ UKW-ABGLEICH

	WELLENBAND	SIGNALGENERATOR oder WOBBELGENERATOR: ANSCHLÜSSE	SIGNALGENERATOR oder WOBBELGENERATOR: FREQUENZ	STELLUNG DES ABSTIMM-REGLERS	MESSGERÄT (ELEKTRONIK-VOLTMETER oder OSZILLOSKOP)	ABGLEICH	BEMERKUNGEN
			UKW-ZF-ABGLEICH				
(1)	UKW	Über einen 0,001μF-Kondensator an den Meßpunkt ③ anschließen. Den negativen Ausgang an den Meßpunkt ② anschließen.	10,7MHz (SWP.)	Der Abstimmpunkt, wo keine Interferenz auftritt (ungefähr bei 90MHz).	Die Vertikalamplitude des Oszilloskops an den Meßpunkt ⑥ anschließen. Den negativen Ausgang an den Meßpunkt ⑦ anschließen.	T7 (1. UKW-ZF-Abgleich)	Die Maximalamplitude einstellen. (Siehe Abb. 17.)
(2)	UKW	〃	〃	〃	〃	T2 (2. UKW-ZF-Abgleich)	Die Maximalamplitude einstellen. (Siehe Abb. 18.)
			UKW-HF-ABGLEICH				
(3)	UKW	Über eine künstliche UKW-Antenne an den Meßpunkt ① anschließen. Den negativen Ausgang an den Meßpunkt ② anschließen.	87,5MHz	Drehkondensator ganz geschlossen.	Ausgangsleistungsmesser parallel zur Lautsprecher-Schwingspule.	L4 (UKW-Oszillatorspule)	(*2) Die maximale Ausgangsleistung einstellen.
(4)	UKW		108MHz	Drehkondensator ganz aufgedreht.	〃	CT1 (UKW-Oszillatortrimmer)	〃
(5)	UKW		90MHz	Das Signal abstimmen.	〃	L2 (UKW-Antennenspule)	〃
(6)	UKW		106MHz	〃	〃	CT2 (UKW-Antennentrimmer)	(*2) Die maximale Ausgangsleistung einstellen. Die Schritte (3) bis (6) wiederholen.

(*2) Es gibt drei verschiedene Ausgangsfrequenzkurven. Stimmen Sie die Mittelfrequenz ab.

■ KANAL TRENNUNGSABGLEICH

PRÜFUNG	UKW-MESSENDER SOURCE-ANSCHLUSS	GERÄTEAN-SCHLUSS (ELEKTRONISCHER ZÄHLER)	EINSTELLUNG	ANGABEN	BEMERKUNGEN
Einstellung des Pilottons	98MHz, 60dB Am Prüfpunkt ① über eine künstliche UKW-Antenne anschließen, die negative Seite mit dem Prüfpunkt ② verbinden.	⑧ ...(+) ⑦ ...(−)	VR1	19kHz	Mit dem elektronischen Zähler den Spannungskonstanthalter (VR1) auf 19kHz (±100Hz) einstellen.

■ AUDIO-ABGLEICH

EINSTELLUNG	EINGANG	MESSPUNKT	MESSWERT	EINSTELL-PUNKT	BEMERKUNGEN
Azimut	QZZCFM (8kHz, −20dB)	EXT SP	Die maximale Ausgangsleistung einstellen.	Azimut-Einstellschraube	bei Wiedergabe
Oszillationsfrequenz für Vormagnetisierung	——	⑪ ...(+) ⑫ ...(−)	62kHz	L301	bei Aufnahme: Oszillator → II Bandsortenwähler... Reineisen
Löschstrom	für Reineisenband oder Normalband.	⑪ ...(+) ⑫ ...(−)	Reineisen 150mV Normal 75mV	Reincisen VR301 Normal VR302	bei Aufnahme: Oszillator → II Bandsortenwähler... Reineisen oder Normal

EINSTELLUNG	EINGANG	MESSPUNKT	MESSWERT	EINSTELL-PUNKT	BEMERKUNGEN
Vormagnetisierungssperre	——	⑩① ...(+) (linker Kanal) ⑩② ...(−) (linker Kanal) ⑳① ...(+) (rechter Kanal) ⑳② ...(−) (rechter Kanal)	Die maximale Ausgangsleistung einstellen.	L101 (linker Kanal) L201 (rechter Kanal)	bei Aufnahme: Oszilator → II Bandsortenwähler... Reineisen
Vormagnetisierungsstrom	für Reineisenband oder Normalband	⑩① ...(+) (linker Kanal) ⑩② ...(−) (linker Kanal) ⑳① ...(+) (rechter Kanal) ⑳② ...(−) (rechter Kanal)	Reineisen 9,5mV Normal 5,0±0,5mV	VR103 Reineisen VR203 Normal	bei Aufnahme: Oszillator → II Bandsortenwähler... Reineisen oder Normal
Dolby	MMT-150 200nWb/m Modulationsfrequenz 400Hz	⑥① ...(+) (linker Kanal) ⑥② ...(−) (linker Kanal) ⑧① ...(+) (rechter Kanal) ⑧② ...(−) (rechter Kanal)	580mV	VR101 (linker Kanal) VR201 (rechter Kanal)	bie Wiedergabe Oszillator → II Bandsortenwähler... Normal
Kopf strom	LINE IN (−14dB)	⑩① ...(+) (linker Kanal) ⑩② ...(−) (linker Kanal) ⑳① ...(+) (rechter Kanal) ⑳② ...(−) (rechter Kanal)	Normal 0,35mV Reineisen 0,58±0,05mV	VR102 (linker Kanal) VR202 (rechter Kanal)	bei Wiedergabe Oszillator → II Bandsortenwähler... Normal oder Reineisen

■ ABGLEICH DER LEUCHTDIODEN-ANZEIGE

PRÜFUNG	EINSTELLUNG	BEMERKUNGEN
Pegelprüfung	VR104 (rechter Kanal) VR204 (linker Kanal)	1. Testband abspielen (QZZCLA). 2. VR104 (rechter Kanal) und VR204 (linker Kanal) so einstellen, daß die dritt Leuchtdiode von links aufleuchtet.

RX-F32LS FRANÇAIS

■ SPECIFICATIONS

Généralités:

Alimentation:	c.a. 110 à 115/115 à 127/200 à 220/230 à 250V, 50/60Hz Piles: 12V (huit piles sèches de dimension C) (National UM-2 ou équivalent) Batterie pour automobile: avec adaptateur RP-952 automobile en option
Consommation:	25W (C.A. seulement)
Puissance de sortie:	20W (10W×2)...RMS (max.)
Enceinte acoustique:	Haut-parleur dynamique 9cm à aimant fixe (6Ω)
Entrée:	MIC: sensibilité 0,25mV: impédance applicable pour microphone 200 à 600Ω ENTREE: sensibilité 200mV/50kΩ ou plus DC IN: 12V
Sortie:	SORTIE: sensibilité 420mV/47kΩ EXT SP: 3 à 8Ω HEADPHONE: 32Ω
Dimensions (l×h×Pr)cm:	41,8×22,0×11,0 ($16^{1}/_{2}$×$8^{11}/_{16}$×$4^{3}/_{8}$)"
Poids kg:	4,15 sans piles

Section radio:

Gamme de fréquence radio:	FM: 87,5 à 108MHz GO: 150 à 285kHz (2000 à 1060m) PO: 520 à 1610kHz (577 à 186m) OC: 5,9 à 18MHz (50,8 à 16,7m)
Fréquence intermédiaire:	FM: 10,7MHz AM (GO/PO/OC): 455kHz
Sensibilité:	FM: 1,8μV pour une sortie de 500mW GO: 178μV/m pour une sortie de 50mW PO: 141μV/m pour une sortie de 50mW OC: 8,9μV pour une sortie de 50mW

Section platine magnétophone:

Réponse de fréquence:	60 à 12.000Hz (avec bande normale) 60 à 14.000Hz (avec bande Métal)
Système d'enregistrement:	Polarisation C.A., effacement C.A.
Vitesse de bande:	4,8cm/sec.
Pleurage et scintillement:	0,2% (WRMS)
Durée de lecture:	1 heure avec cassette C-60
Pistes:	Enregistrement et lecture stéréo 4 pistes, 2 canaux

Ces spécifications sont sujettes à des changements sans prèavis.

SYMBOLES UTILISES DANS LE SCHEMA

Remarques:

1. S1-1~S1-10: Commutateur enregistrement/lecture en position "playback". (1...Lecture, 3...Enregistrement)
2. S2-1~S2-4: Commutateur de fonction en position "TAPE/OFF". (1..."TAPE/OFF", 2..."RADIO", 3..."LINE IN")
3. S3-1~S3-5: Sélecteur de bande en position "METAL". (1..."NORMAL", 2..."METAL")
4. S4-1~S4-4: Commutateur de stéréo-mono/anti-battements en position "STEREO/II". (1..."MONO/I", 2..."STEREO/II", 3..."AMBIENCE/III")
5. S5: Commutateur de Dolby NR en position "OUT".
6. S6-1, S6-2: Commutateur du Loudness en position "Arrêt".
7. S7: Interrupteur "ON/OFF" de la fonction TPS en position "OFF".
8. S8-1~S8-8: Sélecteur de gamme d'onde en position "FM". (1..."FM", 2..."LW", 3..."MW", 4..."SW")
9. S9: Commutateur du moteur en position "OFF".
10. S10: Commutateur du commutateur lecture en position "OFF".
11. S11: Commutateur TPS en position "Arrêt".
12. S12: Sélecteur C.A./C.C. en position "DC IN".
13. S13: Sélecteur de tension.
14. VR101, 201: Régulateur de tension de réglage de Dolby.
15. VR102, 202: Régulateur de tension de réglage de courant de enregistrement.
16. VR103, 203: Régulateur de tension de réglage du courant de polarisation.
17. VR104, 204: Régulateur de tension de réglage du niveau des indicateurs.
18. VR105, 205: Commande des graves.
19. VR106, 206: Commande des aigus.
20. VR107, 207: Potentiomètre de volume.
21. VR301: Régulateur de tension de réglage du courant (NORMAL) d'effacement.
22. VR302: Régulateur de tension de réglage du courant (METAL).
23. VR303: Commande de balance.
24. La marque (▼) signale un point de vérification. Ex.:▼= point de vérification 1.
25. La tension C.C. est mesurée au moyen d'un voltmètre électronique à partir de la borne négative de la pile. < >...Position FM, ( )...Position AM, (( ))..Position Enregistrement, Non marque...Position Lecture.
26. Courant des piles: Pas de signal 135mA
Sortie maximum (Radio).....1.2A
Sortie maximum (Bande) 1.3A
27. Remarque importante concernant la sécurité
Les pièces marquées ⚠ ont des caractéristiques spéciales, importantes pour la sécurité.
Lors du remplacement d'une de ces pièces, n'utiliser que les pièces spécifiées par le fabricant.

ALIGNEMENTS

■ INSTRUCTIONS D'ALIGNEMENT

AVANT DE PROCEDER AUX ALIGNEMENTS, LIRE ATTENTIVEMENT CE QUI SUIT

1. Placer le potentiomètre de volume au maximum.
2. Placer les commandes des graves et aigus au centre.
3. Placer le sélecteur de bande sur GO, PO, OC ou FM.
4. Placer la commande de balance au centre.
5. Placer le Commutateur Dolby NR en position "Arrêt".
6. Placer le Commutateur Loudness en position "Arrêt".
7. Placer le sélecteur de fonctions sur "radio".
8. Placer la commande de syntonisation fine sur sa position centrale.
9. Régler la tension sur 12V C.C.
10. Régler la sortie du générateur étalonné de façon à ne pas surcharger les circuits.

■ ALIGNEMENT GO, PO, et OC

	BANDE	GENERATEUR ETALONNE ou GENERATEUR DE BALAYAGE		POSITION DE L'AIGUILLE SUR LE CADRAN	INDICATEUR (VOLTMETRE ou OSCILLOSCOPE ELECTRONIQUES)	REGLAGE	OBSERVATIONS
		BRANCHEMENTS	FREQUENCE				
		ALIGNEMENT IF sur AM					
(1)	PO	Faire une boucle de plusieurs tours de fil et émettre ls signal dans la boucle du récepteur.	455kHz (modulation de 30% à 400Hz)	Point de non-interférence. (à/environ 600kHz)	Voltmètre branché à la bobine oscillatrice.	T6 (AM IFT)	Régler pour une sortie maximum.
		ALIGNEMENT HF sur GO					
(2)	GO	〃	145kHz	145kHz (Voir fig. 13.)	Voltmètre branché à la bobine oscillatrice.	T3 (bobine d'oscillateur GO) (∗1) L5 (bobine d'antenne GO)	Régler pour une sortie maximum en glissant la bobine L5 le long du noyau en ferrite.
(3)	GO	〃	285kHz	285kHz (Voir fig. 13.)	〃	CT6 (trimmer d'oscillateur GO) CT5 (trimmer d'antenne GO)	Régler pour une sortie maximum. Refaire les étapes (2) et (3).
		ALIGNEMENT HF sur PO					
(4)	PO	〃	550kHz	550kHz (Voir fig. 13.)	Voltmètre branché à la bobine oscillatrice.	T4 (bobine d'oscillateur PO) (∗1) L6 (bobine d'antenne PO)	Régler pour une sortie maximum en glissant la bobine L6 le long du noyau en ferrite.
(5)	PO	〃	1.500kHz	1.500kHz (Voir fig. 13.)	〃	CT3 (trimmer d'oscillateur PO) CT4 (trimmer d'antenne PO)	Régler pour une sortie maximum. Refaire les étapes (4) et (5).
	(∗1) Sceller la bobine d'antenne à la cire après avoir achevé l'alignement.						
		ALIGNEMENT HF sur OC					
(6)	OC	Brancher au point ▼2 par un condensateur en céramique (10pF). Côté négatif au point ▼3.	5.9MHz	5.9MHz (Voir fig. 13.)	Voltmètre branché à la bobine oscillatrice.	T5 (bobine d'oscillateur OC) T1 (bobine d'antenne OC)	Régler pour une sortie maximum.
(7)	OC		18MHz	18MHz (Voir fig. 13.)	〃	CT7 (trimmer d'oscillateur OC)	Régler pour une sortie maximum. Refaire les étapes (6) et (7).

■ ALIGNEMENT FM

	BANDE	GENERATEUR ETALONNE ou GENERATEUR DE BALAYAGE		POSITION DE L'AIGUILLE SUR LE CADRAN	INDICATEUR (VOLTMETRE ou OSCILLOSCOPE ELECTRONIQUES)	REGLAGE	OBSERVATIONS
		BRANCHEMENTS	FREQUENCE				
		ALIGNEMENT IF sur FM					
(1)	FM	Brancher au point ▼3 via 0,001μF. Côté négatif au point ▼2.	10,7MHz (SWP.)	Point de non-interférence. (à/environ 90MHz)	Brancher la sonde vert. de l'oscilloscope au point ▼3. Côté négatif au point ▼1.	T7 (FM 1ére IFT)	Régler pour une amplitude maximum. (Voir fig. 17.)
(2)	FM	〃	〃	〃	〃	T2 (FM 2éme IFT)	Régler pour une amplitude maximum. (Voir fig. 18.)

■ ALIGNEMENT FI

	BANDE	GENERA GENERA
		BRANCHE
(3)	FM	
(4)	FM	Brancher a ▼ via une antenne fic Côté négat point ▼.
(5)	FM	
(6)	FM	
	(∗2) Il y aura trois	

■ ALIGNEMENT DI

ELEMENT	G
Réglage du signal pilote.	98 B de l'i d' fi ne de

■ ALIGNEMENTS A

ELEMENT	EN
Azimuth	Q (8
Fréquence d'oscillation de polarisation	
Courant d'effacement	U ba ou
Eliminateur de polarisation	
Courant de polarisation	U ba ou
Dolby	M 20 M 40
Courant de tête.	EI (–

■ ALIGNEMENT FM

	BANDE	GENERATEUR ETALONNE ou GENERATEUR DE BALAYAGE		POSITION DE L'AIGUILLE SUR LE CADRAN	INDICATEUR (VOLTMETRE ou OSCILLOSCOPE ELECTRONIQUES)	REGLAGE	OBSERVATIONS
		BRANCHEMENTS	FREQUENCE				
	ALIGNEMENT HF sur FM						
(3)	FM	Brancher au point ▼1 via une antenne fictive FM. Côté négatif au point ▼2.	87,5MHz	Condensateur variable totalement fermé.	Voltmètre branché à la bobine oscillatrice.	L4 (bobine d'oscillateur FM)	(*2) Régler pour une sortie maximum.
(4)	FM		108MHz	Condensateur variable ouvert à fond.	〃	CT1 (trimmer d'oscillateur FM)	〃
(5)	FM		90MHz	Syntoniser sur le signal.	〃	L2 (bobine d'antenne FM)	〃
(6)	FM		106MHz	〃	〃	CT2 (trimmer d'antenne FM)	(*2) Régler pour une sortie maximum. Refaire les étapes (3) à (6).
	(*2) Il y aura trois réponses de sortie; la syntonisation adéquate est la fréquence du milieu.						

■ ALIGNEMENT DE LA SEPARATION

ELEMENT	GENERATEUR DE SIGNAUX FM BRANCHEMENT SUR LA SOURCE	BRANCHEMENT A L'EQUIPMENT (COMPTEUR ELECTRONIQUE)	REGLAGE	SPECIFICATION	REMARQUES
Réglage du signal pilote.	98MHz, 60dB Brancher au point de coupure ▼1 par l'intermédiaire d'une antenne FM fictive. Côté négatif au point de coupure ▼2.	▼3 ...(+) ▼2 ...(−)	VR1	19kHz	Régler VR1 pour 19kHz (±100Hz) en effectuant la lecture sur le compteur électronique.

■ ALIGNEMENTS AUDIO

ELEMENT	ENTREE	POINT DE MESURE	SPECIFICATION	POINT DE REGLAGE	OBSERVATIONS
Azimuth	QZZCFM (8kHz, −20dB)	EXT SP	Régler pour une sortie maximum.	Vis d'azimut	Mode de lecture
Fréquence d'oscillation de polarisation	——	▼11 ...(+) ▼12 ...(−)	62kHz	L301	Mode d'enregistrement Interrupteur anti-battement → II Sélecteur de bande... Métal
Courant d'effacement	Utiliser une bande METAL ou NORMAL.	▼11 ...(+) ▼12 ...(−)	Métal 150mV Normal 75mV	Métal VR301 Normal VR302	Mode d'enregistrement Interrupteur anti-battement → II Sélecteur de bande... Métal ou Normal
Eliminateur de polarisation	——	▼101 ...(+) (canal gauche) ▼102 ...(−) (canal gauche) ▼201 ...(+) (canal droit) ▼202 ...(−) (canal droit)	Régler pour une sortie maximum.	L101 (canal gauche) L201 (canal droit)	Mode d'enregistrement Interrupteur anti-battement → II Sélecteur de bande... Métal
Courant de polarisation	Utiliser une bande METAL ou NORMAL.	▼101 ...(+) (canal gauche) ▼102 ...(−) (canal gauche) ▼201 ...(+) (canal droit) ▼202 ...(−) (canal droit)	Métal 9,5mV Normal 5,0±0,5mV	Métal VR103 Normal VR203	Mode d'enregistrement Interrupteur anti-battement → II Sélecteur de bande... Métal ou Normal
Dolby	MMT-150 200nWb/m Modulation de 400Hz	▼501 ...(+) (canal gauche) ▼502 ...(−) (canal gauche) ▼601 ...(+) (canal droit) ▼602 ...(−) (canal droit)	580mV	VR101 (canal gauche) VR201 (canal droit)	Mode de lecture Interrupteur anti-battement → II Sélecteur de bande...Normal
Courant de tête.	ENTREE (−14dB)	▼101 ...(+) (canal gauche) ▼102 ...(−) (canal gauche) ▼201 ...(+) (canal droit) ▼202 ...(−) (canal droit)	Normal 0,35mV Métal 0,58±0,05mV	VR102 (canal gauche) VR202 (canal droit)	Mode de lecture Interrupteur anti-battement → II Sélecteur de bande... Normal ou Métal

■ ALIGNEMENTS DES VU-METRES DEL

ELEMENT	REGLAGE	REMARQUES
Contrôle du niveau	VR104 (canal droit) VR204 (canal gauche)	1. Lecture de la cassette de contrôle (QZZCLA). 2. Régler le VR104 (canal droit) & VR204 (canal gauche) de façon à ce que la 3ème DEL à partir de la gauche commence à s'allumer.